

GenCore version 5.1.9
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 16, 2006, 23:29:06 ; Search time 837 seconds
(without alignments)
10995.661 Million cell updates/sec

Title: US-10-521-428a-1

Perfect score: 1320

Sequence: 1 atgaagtcgacatccatgatg.....cgctccgagagcctctgga 1320

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 5244920 seqs, 3486124231 residues

Total number of hits satisfying chosen parameters: 10489840

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq_8:*

- 1: geneseqn1980s:*
- 2: geneseqn1990s:*
- 3: geneseqn2000s:*
- 4: geneseqn2001s:*
- 5: geneseqn2001bs:*
- 6: geneseqn2002as:*
- 7: geneseqn2002bs:*
- 8: geneseqn2003as:*
- 9: geneseqn2003bs:*
- 10: geneseqn2003cs:*
- 11: geneseqn2003ds:*
- 12: geneseqn2004as:*
- 13: geneseqn2004bs:*
- 14: geneseqn2005s:*
- 15: geneseqn2006s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1320	100.0	1320	12	ADM82793
2	1259.4	95.4	5665	10	ADL15026
3	1259.4	95.4	5665	15	AEI18784
4	1257.8	95.3	1419	12	ACH91680
5	1257.8	95.3	1507	2	AAQ14003
6	1257.8	95.3	1755	8	ABZ42646
7	1257.8	95.3	1755	11	ADN38917
8	1257.8	95.3	5471	13	ACN38515
9	1257.8	95.3	5480	14	AE81160
10	1257.8	95.3	5653	9	ADA24536
11	1256.2	95.2	1419	12	ADH77049
12	1256.2	95.2	1419	12	ADH77050
13	1256.2	95.2	1419	12	ADO29849
14	1256.2	95.2	2135	6	ABZ35604
15	1256.2	95.2	2135	10	ACA36852
16	1256.2	95.2	2135	11	AD132143
17	1256.2	95.2	2135	11	AD132143
18	1256.2	95.2	2135	12	AD156648

19	1256.2	95.2	2135	13	AD844210	Ad844210 Human 1ym
20	1256.2	95.2	5651	6	ABZ35298	Abz35298 Human gen
21	1254.6	95.0	1419	5	AB197974	Ab197974 Non-endog
22	1254.6	95.0	1419	12	ADH77051	Adh77051 hCB-1-D38
23	1251.4	94.8	5472	11	ADN38919	Adn38919 Cancer/an
24	1209.8	91.7	1551	6	ABK34744	Abk34744 Human CDN
25	1151	87.2	1252	11	ADN38921	Adn38921 Cancer/an
26	1151	87.2	1252	14	AE81161	AE81161 Human can
27	1077.4	81.6	2370	13	ADU82909	Adu82909 Ligand up
28	1048	79.4	1423	12	ADO30140	Ado30140 Mouse GPC
29	1048	79.4	1654	6	AB199249	Ab199249 Mouse 1sc
30	795.8	60.3	993	14	AEI1326	AEI1326 Hamster c
31	506.2	38.3	600	14	AEI14968	AEI14968 Hamster c
32	498.4	37.8	500	12	ACH77959	ACH77959 Human gen
33	252.4	19.1	3715	6	AA172354	AA172354 CB2R gene
34	252.4	19.1	3715	12	ADO30141	Ado30141 Mouse GPC
35	252.4	19.1	3715	12	ADO97952	Ado97952 Mouse can
36	252.4	19.1	44617	12	ADO97951	Ado97951 Mouse can
37	246.8	18.7	1906	12	ADO97955	Ado97955 Human can
38	246.8	18.7	21906	12	ADO97954	Ado97954 Human can
39	246.4	18.7	1776	15	AEI18785	AEI18785 Human CB2
40	245.2	18.6	1083	12	ADO29850	Ado29850 Human GPC
41	245.2	18.6	1083	14	ADV43994	Adv43994 Human psy
42	245.2	18.6	1776	8	ABZ42647	Abz42647 Human can
43	245.2	18.6	1790	2	AAQ74797	AAQ74797 Cannabino
44	245.2	18.6	1790	10	ACA36761	ACA36761 Human sig
45	245.2	18.6	1790	11	AD132072	AD132072 Human CDN

ALIGNMENTS

RESULT 1	ADM82793	standard; cDNA, 1320 BP.
ID	ADM82793	
XX	ADM82793;	
AC	03-JUN-2004	(first entry)
XX		
DT		
DB	Human cannabinoid 1 receptor splice variant CB1b-encoding cDNA.	
XX		
KW	Human; CB1 receptor; splice variant; cannabinoid 1 receptor;	
KW	CB1 receptor; drug screening; cannabinoid receptor-associated disorder;	
KW	obesity; pain; psychiatric disorder; depression; anxiety;	
KW	neurological disorder; Parkinson's disease; Alzheimer's disease;	
KW	anorectic; analgesic; neuroleptic; antidepressant; tranquiliser;	
KW	antiparkinsonian; neuroprotective; nootropic; gene therapy; gene; ss.	
OS	Homo sapiens.	
XX		
FX	Key	Location/Qualifiers
FT	CDS	1..1320
FT		/*tag= a
FT		/product= "CB1b receptor"
XX		
XX	WO2004007551-A1.	
XX	22-JAN-2004.	
PD		
XX	14-JUL-2003; 2003WO-GB003067.	
PF		
XX	17-JUL-2002; 2002SE-00002240.	
PR		
XX		
XX	(ASTR) ASTRAZENCA UK.	
PA	(ASTR) ASTRAZENCA AB LTD.	
XX		
XX	Vu HK, Groblewski T, Greasley P,	
PI		
DR	WPI; 2004-122892/12.	
XX	P-PSDB; ADM82794.	
XX		
PT	New human cannabinoid (CB) 1b receptor polypeptides and nucleic acid	

PT molecules, useful for diagnosing, preventing or treating CB-associated
PT disorders e.g. obesity, pain, anxiety or neurological disorders and in
PT drug screening.

Claim 1; SEQ ID NO 1, 34pp; English.

CC The invention relates to a novel splice variant, CB1b (ADM82794), of the
CC human cannabinoid 1 (CB1) receptor and nucleic acids encoding it;
CC (ADM82793). Compared with the known CB1 receptor, the CB1b receptor has a
CC deletion of 33 residues towards the N-terminus (residues 22-54 of the CB1
CC receptor). The invention also relates to sequences at least 95% identical
CC to the CB1b receptor nucleic acid and protein sequences of the invention;
CC vectors and host cells comprising a CB1b receptor nucleic acid sequence;
CC a method for the recombinant production of the CB1b receptor; a method of
CC detecting a CB1b receptor nucleic acid; methods of screening or
CC identifying compounds which bind to the CB1b receptor; CB1b receptor
CC agonists, antagonists, inverse agonists or modulators and pharmaceutical
CC compositions containing them; and methods of treating or preventing a
CC disorder associated with cannabinoid receptors. The pharmaceutical
CC compositions and methods of the invention are useful in diagnosing,
CC preventing or treating CB receptor-associated disorders such as obesity,
CC pain, psychiatric disorders (e.g., depression or anxiety) or neurological
CC disorders (e.g., Parkinson's disease or Alzheimer's disease). The present
CC sequence represents cDNA encoding the human CB1b receptor.

XX
XX
SQ Sequence 1320 BP; 291 A; 386 C; 335 G; 308 T; 0 U; 0 Other;

Query Match 100.0%; Score 1320; DB 12; Length 1320;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1320; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAAGTGGATCTGATAGGCGCTTCAGATACACCTTCGACCATCAGCACTGACCTC 60
DB 1 ATGAAGTGGATCTGATAGGCGCTTCAGATACACCTTCGACCATCAGCACTGACCTC 60
QY 61 CTGGGAAGTCCCTTCAAGAGAAGATGACTGCGGAGACAAACCCCACTAGTCTCCAGCA 120
DB 61 CTGGGAAGTCCCTTCAAGAGAAGATGACTGCGGAGACAAACCCCACTAGTCTCCAGCA 120
QY 121 GACCAAGTGAACATTACAGAAATTTTCAACAAGTCTCTCTCTCTTCAAGAGATGAG 180
DB 121 GACCAAGTGAACATTACAGAAATTTTCAACAAGTCTCTCTCTCTTCAAGAGATGAG 180
QY 181 GAGAACATCCAGTGGGGAGAACTTCATGACATAGAGTGTTCATGCTCTGAACCCC 240
DB 181 GAGAACATCCAGTGGGGAGAACTTCATGACATAGAGTGTTCATGCTCTGAACCCC 240
QY 241 AGCCAGCAGCTGGCATTGCACTCTGTCCTCAGCGTGGGACCTTCACGCTCTGAG 300
DB 241 AGCCAGCAGCTGGCATTGCACTCTGTCCTCAGCGTGGGACCTTCACGCTCTGAG 300
QY 301 AACCTCTGCTGCTGTGCTCATCTCCAGACCTCCGCTGCAAGGCTTCTCAG 360
DB 301 AACCTCTGCTGCTGTGCTCATCTCCAGACCTCCGCTGCAAGGCTTCTCAG 360
QY 361 CACTTCATCGGAGCGCTGGCGGTGGCAGACCTCTGGGGAGATGATTTTGTCTACAGC 420
DB 361 CACTTCATCGGAGCGCTGGCGGTGGCAGACCTCTGGGGAGATGATTTTGTCTACAGC 420
QY 421 TTCAATTGACTTCACGCTGTTCCACCGCAAGATAGCCGACGATGTTCTGTTCAAACTG 480
DB 421 TTCAATTGACTTCACGCTGTTCCACCGCAAGATAGCCGACGATGTTCTGTTCAAACTG 480
QY 481 GGTGGGGTTCACGGCTCTTCACTGCTCTCGTGGGAGGCTGTTCTCAAGCATCGAC 540
DB 481 GGTGGGGTTCACGGCTCTTCACTGCTCTCGTGGGAGGCTGTTCTCAAGCATCGAC 540
QY 541 AGGTACATATCATTCACAGGCGCCCTGAGCTTAAGAGATTTGTACACAGGCGCAAGGCC 600
DB 541 AGGTACATATCATTCACAGGCGCCCTGAGCTTAAGAGATTTGTACACAGGCGCAAGGCC 600
QY 601 GTGGTAGCGTTTGTGCTGATGAGCAATAGCCATTTGTGATGCGGTGCTCTCTG 660
DB 601 GTGGTAGCGTTTGTGCTGATGAGCAATAGCCATTTGTGATGCGGTGCTCTCTG 660

DB 601 GTGGTAGCGTTTGTGCTGATGAGCAATAGCCATTTGTGATGCGGTGCTCTCTG 660
QY 661 GGCTGGAAGTCCGAGAAAGTGCATCTGTTGCTCAGACATTTTCCACATTTGAGAA 720
DB 661 GGCTGGAAGTCCGAGAAAGTGCATCTGTTGCTCAGACATTTTCCACATTTGAGAA 720
QY 721 ACTTACCTGATGTTTGGATGGGGGTACACAGCTACTGCTTCTGTTCACTGTTATGCG 780
DB 721 ACTTACCTGATGTTTGGATGGGGGTACACAGCTACTGCTTCTGTTCACTGTTATGCG 780
QY 781 TACATGATATTTCTGGAAGGCTCAGAGCCAGCCCTCGCATGATTCAGCTGGCAAC 840
DB 781 TACATGATATTTCTGGAAGGCTCAGAGCCAGCCCTCGCATGATTCAGCTGGCAAC 840
QY 841 CAGAGAGCATCATCATTCACACCTGAGATGGGAAGGTACAGGTGACCCGCGCAGAC 900
DB 841 CAGAGAGCATCATCATTCACACCTGAGATGGGAAGGTACAGGTGACCCGCGCAGAC 900
QY 901 CAAGCCGCAATGACATTTAGGTTAGCAGAGACCTGCTCTGATCTGTTGTTGATC 960
DB 901 CAAGCCGCAATGACATTTAGGTTAGCAGAGACCTGCTCTGATCTGTTGTTGATC 960
QY 961 ATCTGCTGGGCGCTCTGCTTTCATCATGATGATGATGTTTGGAGAGTAAACAG 1020
DB 961 ATCTGCTGGGCGCTCTGCTTTCATCATGATGATGATGTTTGGAGAGTAAACAG 1020
QY 1021 CTCAATTAAAGAGGTTTGTGATCTGAGATGATGCTGCTGCTGATCCACAGGTGAC 1080
DB 1021 CTCAATTAAAGAGGTTTGTGATCTGAGATGATGCTGCTGCTGATCCACAGGTGAC 1080
QY 1081 CCACATCATATGCTCTGAGAGATGAGGACCTGAGACAGCTTCCGAGAGCATGTTCC 1140
DB 1081 CCACATCATATGCTCTGAGAGATGAGGACCTGAGACAGCTTCCGAGAGCATGTTCC 1140
QY 1141 TCTTGTGAAGGCACTGGGAGCTCTGTGATTAACAGCATGAGGAGACTGGACTGCTGAC 1200
DB 1141 TCTTGTGAAGGCACTGGGAGCTCTGTGATTAACAGCATGAGGAGACTGGACTGCTGAC 1200
QY 1201 AAACACGAAACATATGACGAGGTTCAAGGGCCGAGAAAGCTGATCAAGAGCAG 1260
DB 1201 AAACACGAAACATATGACGAGGTTCAAGGGCCGAGAAAGCTGATCAAGAGCAG 1260
QY 1261 GTCAAGATTGCAAGATTAACATGCTGCTGCTCAAGACAGCTGCGGAGGCTCTGTA 1320
DB 1261 GTCAAGATTGCAAGATTAACATGCTGCTGCTCAAGACAGCTGCGGAGGCTCTGTA 1320

RESULT 2
ADL15026
ID ADL15026 standard; DNA; 5665 BP.
XX
XX
AC ADL15026;
XX
XX
DT 06-MAY-2004 (first entry)
XX
DE Human CB1 cannabinoid receptor DNA for cancer treatment.
XX
KM de; gene; cytostatic; gene therapy; binding moiety; medicine; imaging;
XX diagnosis; prognosis; mantle cell lymphoma; cancer.
OS Homo sapiens.
PN WO2003068268-A2.
XX
PD 21-AUG-2003.
XX
PF 13-FEB-2003; 2003WO-BP001461.
XX
PR 14-FEB-2002; 2002GB-00003480.
XX 29-JUN-2002; 2002GB-00015095.
XX
XX (BIOI-) BIOINVENT INT AB.
XX

XX	AAQ14003;
AC	
XX	
DT	25-MAR-2003 (revised)
DT	17-DEC-2001 (revised)
DT	19-DEC-1991 (first entry)
XX	
DE	Human cannabinoid receptor coding sequence.
XX	
KW	Cannabis sativa; marijuana; drug test; substance K receptor; ss.
XX	
OS	Homo sapiens.
XX	
FH	
FT	Key Location/Qualifiers
FT	CDS 29..1447
FT	/tag= a
FT	/product= "human cannabinoid receptor"
XX	
PX	USN7564075-N.
XX	
PD	03-SEP-1991.
XX	
PX	08-AUG-1990; 90US-00564075.
PF	
XX	
PR	08-AUG-1990; 90US-00564075.
XX	
PA	(USSH) NAT INST OF HEALTH.
XX	(USDC) US SEC OF COMMERCE.
PI	
PI	Mateuda L, Brownstein M;
XX	
PT	WPI: 1991-303326/41.
DR	P-PsDB; AARI14196.
XX	
PT	DNA encoding mammalian cannabinoid receptor - used for producing receptor
PT	for screening drugs and ligands and in detection.
XX	
PS	Disclosure; Fig 5; 25bp; English.
XX	
CC	SKR6 cDNA encoding the rat cannabinoid receptor was isolated from a rat
CC	cerebral cortex cDNA library. An EcoRI-XbaI fragment was used to screen a
CC	human cosmid library. A positive clone was identified and sequenced.
CC	There is ca. 97 per cent homology between the deduced amino acid
CC	sequences of the human and rat cannabinoid receptors. (N.B. the
CC	nucleotide sequence encoding the rat cannabinoid receptor is also given
CC	in the specification but the copy quality is extremely poor; hence it is
CC	not included in N-GeneSeq). Recombinantly produced receptor can be used
CC	to screen for new drugs suitable for treatment of cannabinoid-treatable
CC	conditions, e.g. glaucoma, bronchial asthma, etc. See also AARI4195.
CC	(Note: Revised entry submitted to correct the patent number format of US
CC	Government-owned NTIS applications to prevent clashes with ongoing US
CC	granted patent numbers. For further information please visit the Derwent
CC	web site at www.derwent.com/dwpi/updates/ntis_us.html.) (Updated on 25-
CC	MAR-2003 to correct PA field.)
XX	
XX	
SQ	Sequence 1507 BP; 350 A; 428 C; 371 G; 358 T; 0 U; 0 Other;
	Query Match 95.3%; Score 1257.8; DB 2; Length 1507;
	Best Local Similarity 99.4%; Pred. No. 0;
	Matches 162; Conservative 0; Mismatches 7; Indels 0; Gaps 0
QY	52 ACTGACCCTTCGTGGGAAGTCCCTTCAAGAAGATGACTCGCGGAGACAACCCCGA 111
Db	
	179 ACTTCCTTTAGGGGAAGTCCCTTCAAGAAGATGACTCGCGGAGACAACCCCGA 238
QY	112 GTCCAGCAGACCAGGTGAACATTACAGAATTTTACAACAAGTCTCTGTCCTTCAAG 171
Db	
	239 GTCCAGCAGACCAAGTGAACATTACAGAATTTTACAACAAGTCTCTGTCCTTCAAG 298
QY	172 GAGAAATGAGAGAAACATCCAGTGTTGGGGAACCTTATGACATTAAGTGTTCATGTC 231
Db	
	299 GAGAAATGAGAGAAACATCCAGTGTTGGGGAACCTTATGACATTAAGTGTTCATGTC 358

QY	222	CTGAACCCCAAGCCAGACAGCTGGCCATTTGGCACTGCTGTTCCTCCACAGCTGGGACACTTTACAG	291
Db	359	CTGAACCCCAAGCCAGACAGCTGGCCATTTGGCACTGCTGTTCCTCCACAGCTGGGACACTTTACAG	418
QY	292	GTCCGAGGAACCTCTCGTGTGCTGTGGGTCAATCCCACTCCGACAGCTCCGTCGAGG	351
Db	419	GTCCCTGAGAACTCTCTGTGTCTGTGGGTCACTCTTCACTCCGCAAGCTTCGCTGGAGG	478
QY	352	CCCTTCTTACACTTCAATCGGACAGCCGTGGCGGACAGACCTCTCGGGAGGTGCATTTTTT	411
Db	479	CCCTTCTTACACTTCAATCGGACAGCCGTGGCGGACAGACCTCTCGGGAGGTGCATTTTTT	538
QY	412	GTCTACAGCTTCATTGACCTTCCACGTGTTCACACGGCAAAATTAACCCCAACGTGTCTCG	471
Db	539	GTCTACAGCTTCATTGACCTTCCACGTGTTCACACGGCAAAATTAACCCCAACGTGTCTCG	598
QY	472	TTTCAACCTGGGTGGGGGTCAAGGCGCTCTCACTGACCTCCGGGGCAGCGTGTCTTCTACA	531
Db	599	TTTCAACCTGGGTGGGGGTCAAGGCGCTCTCTTCACTGACCTCCGGGGCAGCGTGTCTTCTACA	658
QY	532	GCCATTCGACAGGTACATATTCATTCAACAGGCCCTCGGCTTAAAGAGATTGTCAACAGG	591
Db	659	GCCATTCGACAGGTACATATTCATTCAACAGGCCCTCGGCTTAAAGAGATTGTCAACAGG	718
QY	592	CCCAAGGCGGTGTAGCGGTTTTGCTCGATGTGACCAATAGCATTTGTGATGCGCGTGTG	651
Db	719	CCCAAGGCGGTGTAGCGGTTTTGCTCGATGTGACCAATAGCATTTGTGATGCGCGTGTG	778
QY	652	CCTCTCCCTGGGCTGGAACTGCGAAGAACTGCAACTGTGTTCCTGACACATTTTCCACAC	711
Db	779	CCTCTCCCTGGGCTGGAACTGCGAAGAACTGCAACTGTGTTCCTGACACATTTTCCACAC	838
QY	712	ATTGATGAACCTTACCTGTATGTTCTGATCGGGGTCAACAAGCTATCTGTTCTGTTCATC	771
Db	839	ATTGATGAACCTTACCTGTATGTTCTGATCGGGGTCAACAAGCTATCTGTTCTGTTCATC	898
QY	772	GTGTATGCGTACATGTATATTTCTCTGGAGGCTCAACGACGCGGTCCGATGATTTACG	831
Db	899	GTGTATGCGTACATGTATATTTCTCTGGAGGCTCAACGACGCGGTCCGATGATTTACG	958
QY	832	CTGTGGCAACCCAGAGAGATCATCATCCACGCTGAGGATGGGAAGGTACAGGTGAC	891
Db	959	CTGTGGCAACCCAGAGAGATCATCATCCACGCTGAGGATGGGAAGGTACAGGTGAC	1018
QY	892	CGGCGAGACCAAGCCCGCATGAGACATTAGTGTAGCCAAAGCCCTGTGCTGTATCCTGTG	951
Db	1019	CGGCGAGACCAAGCCCGCATGAGACATTAGTGTAGCCAAAGCCCTGTGCTGTATCCTGTG	1078
QY	952	GTGTGTATCATCTGTGTGGGAGCCCTCTGTGTTGCATCATGTGTATGATGTCTTTGGAGAG	1011
Db	1079	GTGTGTATCATCTGTGTGGGAGCCCTCTGTGTTGCATCATGTGTATGATGTCTTTGGAGAG	1138
QY	1012	ATGAACAAAGCTCATTTAAGACGGGTGTTTGCACTTCTGCAATATGCTCTGCTGCTGAATCC	1071
Db	1139	ATGAACAAAGCTCATTTAAGACGGGTGTTTGCACTTCTGCAATATGCTCTGCTGCTGAATCC	1198
QY	1072	ACCGGAACCCCATCATCTATGCTCTGAGAGTAAAGACCTGCGACACAGCTTCCGAGC	1131
Db	1199	ACCGGAACCCCATCATCTATGCTCTGAGAGTAAAGACCTGCGACACAGCTTCCGAGC	1258
QY	1259	ATGTTTCCCTCTTGTGAAGGCACTGGCGAGCCTCTGAGTAAACAGCATGGGGAGACTCGGAC	1318
Db	1319	TGCTTCGCAAAACACGCAAAACAATGCAAGCCAGTGTCAACAGGGCCGCAAGAAAGCTGCATC	1378
QY	1252	AAGAGCAAGCTCAAGATTGCCAAGGTAAACAATGTCTGTGTCACAGACAGCTGTGCCAG	1311
Db	1379	AAGAGCAAGCTCAAGATTGCCAAGGTAAACAATGTCTGTATCCACAGACAGCTGTGCCAG	1438
QY	1312	GCTCTGTGA	1320

Db 1439 GCTCTGTGA 1447

|||||

RESULT 6
AB242646
ID AB242646 standard; DNA; 1755 BP.
XX
XX AB242646;
AC
XX 04-MAR-2003 (first entry)
DT
XX
XX Human cannabinoid receptor 1 nucleotide SEQ ID NO:83.
DE
XX
XX G protein-coupled receptor; GPCR; antigenic peptide; gene therapy;
KM G protein-coupled receptor modulator; antibody; immune-related disease;
KM growth-related disease; cell regeneration-related disease; AIDS; cancer;
KM immunological-related disease; cell proliferative disease; autoimmune disease;
KM Alzheimer's disease; atherosclerosis; infection; osteoarthritis; allergy;
KM osteoporosis; cardiomyopathy; inflammation; Crohn's disease; diabetes;
KM graft versus host disease; Parkinson's disease; multiple sclerosis; pain;
KM psoriasis; anxiety; depression; schizophrenia; dementia; memory loss;
KM mental retardation; epilepsy; asthma; tuberculosis; obesity; nausea;
KM hypertension; hypotension; renal disorder; rheumatoid arthritis; trauma;
KM ulcer; gene; de
XX
XX Homo sapiens.
OS
XX MO200261087-A2.
PN
XX 08-AUG-2002.
PD
XX 19-DEC-2001; 2001WO-US050107.
PE
XX 19-DEC-2000; 2000US-0257144P.
PR
XX 19-DEC-2000; 2000US-0257144P.
XX
XX (LIFE-) LIFESPAN BIOSCIENCES INC.
PA
XX Burner GC, Roush CL, Brown JP;
PI
XX WPI; 2003-046718/04.
DR P-PSDB; ABP81800.
XX
XX New isolated antigenic peptides e.g., for G protein-coupled receptors
PT (GPCR), useful for diagnosing and designing drugs for treating conditions
PT in which GPCRs are involved, e.g. AIDS, Alzheimer's disease, cancer or
PT autoimmune diseases.
XX
XX Disclosure; Fig 1; 523bp; English.
PS
XX The present invention describes antigenic peptides (I) comprising: (a)
CC any one of 1601 sequences (see ABP82019 to ABP83619) of 12-24 amino
CC acids. Also described: (1) an assay for the detection of a particular G
CC protein-coupled receptor (GPCR) or a candidate polypeptide in a sample;
CC and (2) an isolated antibody having high specificity and high affinity or
CC avidity for a particular GPCR. (1) can be used as GPCR modulators and in
CC gene therapy. The antigenic peptides for GPCRs are useful in detecting an
CC antibody against a particular GPCR, and in the production of specific
CC antibodies. The peptides and antibodies are also useful for detecting the
CC presence or absence of corresponding GPCRs. The antigenic peptides for
CC GPCRs and antibodies are useful for diagnosing and designing drugs for
CC treating immune-related diseases, growth-related diseases, cell
CC regeneration-related disease, immunological-related cell proliferative
CC diseases, or autoimmune diseases, e.g. AIDS, Alzheimer's disease,
CC atherosclerosis, bacterial, fungal, protozoan or viral infections,
CC osteoarthritis, osteoporosis, cancer, cardiomyopathy, chronic and acute
CC inflammation, allergies, Crohn's disease, diabetes, graft versus host
CC disease, Parkinson's disease, multiple sclerosis, pain, psoriasis,
CC anxiety, depression, schizophrenia, dementia, mental retardation, memory
CC loss, epilepsy, asthma, tuberculosis, obesity, nausea, hypertension,
CC hypotension, renal disorders, rheumatoid arthritis, trauma, ulcers, or
CC any other disorder in which GPCRs are involved. The antibodies may be
CC used in immunoassays and immunodiagnosis. AB242523 to AB242869 encode

CC GPCR proteins given in ABP81675 to ABP82018, which are used in the
CC exemplification of the present invention
XX
SQ Sequence 1755 BP; 395 A; 487 C; 441 G; 432 T; 0 U; 0 Other;
Query Match 95.3%; Score 1257.8; DB 8; Length 1755;
Best local similarity 99.4%; Pred. No. 0;
Matches 1262; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 52 ACTGACCTCTGGGAAGTCCCTTCCAGAGAAAGATGATCGGGAGACAAACCCCACTTA 111
DB 239 ACTTCTTTAGGGGAAGTCCCTTCCAGAGAAAGATGATCGGGAGACAAACCCCACTTA 358
QY 112 GTCCAGACAGACAGAGTGAACCTTACAGAAATTTTACAAACAGTCTCTGCTCTTCAAG 171
DB 359 GTCCAGACAGACAGAGTGAACCTTACAGAAATTTTACAAACAGTCTCTCTGCTCTTCAAG 418
QY 172 GAGATGAGAGAGAACATCAAGTGTGGGGAGAACTTCATGAGACATAGAGTTTCATGGTC 231
DB 419 GAGATGAGAGAGAACATCAAGTGTGGGGAGAACTTCATGAGACATAGAGTTTCATGGTC 478
QY 232 CTGAACCCCAAGCAGACAGCTGGCCATTGCAAGTCTGTCCTTCAACGCTGGGCACTTCAAG 291
DB 479 CTGAACCCCAAGCAGACAGCTGGCCATTGCAAGTCTGTCCTTCAACGCTGGGCACTTCAAG 538
QY 292 GTCTGAGAGAACTCTGCTGTGTGCTCATCTTCCACTCCCGAGCTTCGCTGACAG 351
DB 539 GTCTGAGAGAACTCTGCTGTGTGCTCATCTTCCACTCCCGAGCTTCGCTGACAG 598
QY 352 CCTTCTTCACTTATGATGAGAGAGCTGGAGGAGAGAGCTTCGAGGAGTGCATTTT 411
DB 599 CCTTCTTCACTTATGATGAGAGAGCTGGAGGAGAGAGCTTCGAGGAGTGCATTTT 658
QY 412 GTTACAGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 471
DB 659 GTTACAGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 718
QY 472 TTCAAACTGGGGGTGACAGGCTCTTCACTGCTCTCGTGGGAGAGCTGTTCTTCA 531
DB 719 TTCAAACTGGGGGTGACAGGCTCTTCACTGCTCTCGTGGGAGAGCTGTTCTTCA 778
QY 532 GGCATGCAAGGATCATATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCAT 591
DB 779 GGCATGCAAGGATCATATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCAT 838
QY 592 CCCAAGGCGTGTAGAGCTTTTGGCTGTGATGAGACATAGCATTTGTGATGATGATGATGATGAT 651
DB 839 CCCAAGGCGTGTAGAGCTTTTGGCTGTGATGAGACATAGCATTTGTGATGATGATGATGATGAT 898
QY 652 CCTTCTGAGGCTGGAACCTGCGAAGAACTGCATCTGTTTGTCTGAGACATTTTCCACAG 711
DB 899 CCTTCTGAGGCTGGAACCTGCGAAGAACTGCATCTGTTTGTCTGAGACATTTTCCACAG 958
QY 712 ATTATGAAACCTTACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 771
DB 959 ATTATGAAACCTTACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1018
QY 772 GTGTATGAGTACATGATATATCTCTGAAAGGCTCACAGCAGCGCTCGCATGATTTGAG 831
DB 1019 GTGTATGAGTACATGATATATCTCTGAAAGGCTCACAGCAGCGCTCGCATGATTTGAG 1078
QY 832 GTGTGACCCAGAAAGAGATCATATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCAT 891
DB 1079 GTGTGACCCAGAAAGAGATCATATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCAT 1138
QY 892 CGGCGAAGCCAAAGCCCGATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 951
DB 1139 CGGCGAAGCCAAAGCCCGATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1198
QY 952 GTGTGATCATCTGCTGGGGCCCTCTGCTTCAATCATGATGATGATGATGATGATGATGATGATGATGAT 1011
DB 1199 GTGTGATCATCTGCTGGGGCCCTCTGCTTCAATCATGATGATGATGATGATGATGATGATGATGATGAT 1256

QY 1012 ATGAACAAGCTATTAGAAGGCTGTTGATTTGATCTGAGATATGCTGACCTGTAACCTCC 1071
DB 1259 ATGAACAAGCTATTAGAAGGCTGTTGATTTGATCTGAGATATGCTGACCTGTAACCTCC 1318
QY 1072 ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAAGACCTGCGACACGCTTCCGAGAC 1131
DB 1319 ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAAGACCTGCGACACGCTTCCGAGAC 1378
QY 1132 ATGTTTCCCTCTTGTGAAGGCACTGCGAGCTCTGATTAACAGATGGGGGACTCCGAC 1191
DB 1379 ATGTTTCCCTCTTGTGAAGGCACTGCGAGCTCTGATTAACAGATGGGGGACTCCGAC 1438
QY 1192 TGCCTGCAAAACAGCAACATCAGCTGTTTCAAGGGCCGCGAAAGCTGATC 1251
DB 1439 TGCCTGCAAAACAGCAACATCAGCTGTTTCAAGGGCCGCGAAAGCTGATC 1498
QY 1252 AAGAGCAGCTCAAGATTGCGCAAGGTAAACATGCTGTTTCCACAGACAGCTTCCGAG 1311
DB 1499 AAGAGCAGCTCAAGATTGCGCAAGGTAAACATGCTGTTTCCACAGACAGCTTCCGAG 1558
QY 1312 GCTCTGTGA 1320
DB 1559 GCTCTGTGA 1567

RESULT 7
ADN38917

ID ADN38917 standard; cDNA, 1755 BP.

XX AC ADN38917;

XX DT 17-JUN-2004 (first entry)

XX DB Cancer/angiogenesis/fibrosis-related nucleic acid, SEQ ID NO:235.

XX KW Human; differential expression; cancer; angiogenic disorder;

KW fibrotic disorder; psoriasis; ischaemia; heart disease; atherosclerosis;

KW inflammatory disease; autoimmune disease;

KW retinal neovascularisation syndrome; scarring; uterine fibroid;

KW detection; diagnosis; prognosis; drug screening; drug targeting;

KW wound healing; contraception; cytostatic; cardiac; immunomodulatory;

KW vulnery; gene therapy; vaccine; gene; ss.

XX OS Homo sapiens.

XX PN WO2003042661-A2.

XX PD 22-MAY-2003.

XX PF 13-NOV-2002; 2002MO-US036810.

XX PR 13-NOV-2001; 2001US-0350666P.

PR 21-NOV-2001; 2001US-0332464P.

PR 29-NOV-2001; 2001US-0334393P.

PR 03-DEC-2001; 2001US-0335394P.

PR 14-DEC-2001; 2001US-0340376P.

PR 08-JAN-2002; 2002US-0347211P.

PR 10-JAN-2002; 2002US-0347349P.

PR 08-FEB-2002; 2002US-0355250P.

PR 13-FEB-2002; 2002US-0356714P.

PR 20-FEB-2002; 2002US-0359077P.

PR 29-MAR-2002; 2002US-036809P.

PR 04-APR-2002; 2002US-0370110P.

PR 12-APR-2002; 2002US-0372246P.

PR 05-JUN-2002; 2002US-038614P.

PR 16-JUL-2002; 2002US-0396839P.

PR 22-JUL-2002; 2002US-039775P.

PR 22-JUL-2002; 2002US-0397845P.

PR 09-SEP-2002; 2002US-0409450P.

XX PA (EOSB-) EOS BIOTECHNOLOGY INC.

XX PI Afar D, Aziz N, Ginsburg WM, Gish KC, Glynn R, Heverzi PA;

PI Mack DH, Murray R, Watson SR, Wilson KE, Zlotnick A;
XX WPI; 2003-468649/44.
DR P-PSDB; ADN38918.

XX PT Determining the presence or absence of a pathological cell in a patient,
PT useful for diagnosing, prognosing or treating cancer, comprises detecting
PT a nucleic acid in a biological sample.

PS Claim 8; SEQ ID NO 235; 1385bp; English.

XX CC The invention relates to nucleic acids and proteins (ADN38663-ADN40064)
CC whose expression is upregulated or downregulated in specific cancers or
CC other diseases such as angiogenic or fibrotic disorders, and to methods
CC of determining the presence or absence of a pathological cell in a
CC patient by detecting a nucleic acid at least 80% identical to those of
CC the invention or by detecting a polypeptide of the invention. The
CC invention also relates to expression vectors and host cells comprising a
CC nucleic acid of the invention; antibodies which specifically bind a
CC polypeptide of the invention; use of such antibodies for drug targeting;
CC and methods of screening for modulators of activity or expression of the
CC polypeptides and nucleic acids. The nucleic acids, polypeptides,
CC antibodies and methods are useful for diagnosing, prognosing and treating
CC cancer and other conditions such as psoriasis, ischaemia, heart disease,
CC atherosclerosis, inflammatory diseases, autoimmune diseases, retinal
CC neovascularisation syndromes, scarring and uterine fibroids. They may
CC also be useful in wound healing and in contraception. The present
CC sequence represents a nucleic acid sequence of the invention.

XX SQ Sequence 1755 BP; 395 A; 487 C; 441 G; 432 T; 0 U; 0 Other;

XX Query Match 95.3%; Score 1257.8; DB 11; Length 1755;

XX Best Local Similarity 99.4%; Pred. No. 0;

XX Matches 1262; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 52 ACTGACCTCTGGAGAGTCCCTTCCAGAGATGACTGCGGAGACACCCCACTA 111
DB 299 ACTTCTTTAGGGAGAGTCCCTTCCAGAGATGACTGCGGAGACACCCCACTA 358
QY 112 GTCCAGAGACCGAGTGAATTTTCAAGATCTCTCTCTCTCAAG 171
DB 359 GTCCAGAGACCGAGTGAATTTTCAAGATCTCTCTCTCTCAAG 418
QY 172 GAGATGAGAGACATCAATGAGGAGAACTTCAATGACATAGATGTTTCAATGTC 231
DB 419 GAGATGAGAGACATCAATGAGGAGAACTTCAATGACATAGATGTTTCAATGTC 478
QY 232 CTGAACCCAGCAGACCTGCGCATTTGACCTGCTTCACTGAGCACTTCAAG 291
DB 479 CTGAACCCAGCAGACCTGCGCATTTGACCTGCTTCACTGAGCACTTCAAG 538
QY 292 GTCTGAGAGACCTTCTGCTGCTCATCTCTCCACTCCCAAGCTCCGCTGACG 351
DB 539 GTCTGAGAGACCTTCTGCTGCTCATCTCTCCACTCCCAAGCTCCGCTGACG 598
QY 352 CTTCTTACCACTTCAATGAGCCTGCGGAGAACTTCTGAGAGATGATTTT 411
DB 539 CTTCTTACCACTTCAATGAGCCTGCGGAGAACTTCTGAGAGATGATTTT 658
QY 412 GTCTAAGCTTCAATGACTTCAAGTGTTCACCGCAAGATAGCCGACGTTTCTG 471
DB 659 GTCTAAGCTTCAATGACTTCAAGTGTTCACCGCAAGATAGCCGACGTTTCTG 718
QY 472 TTCAACCTGAGGAGTCAAGCCCTCTTCACTGCTCCGAGAGCTTCTCTCA 531
DB 719 TTCAACCTGAGGAGTCAAGCCCTCTTCACTGCTCCGAGAGCTTCTCTCA 778
QY 532 GCAATGACAGTACATATTCATTCACAGGCCCTGAGCTTAAGAGATGTCACAG 591
DB 779 GCAATGACAGTACATATTCATTCACAGGCCCTGAGCTTAAGAGATGTCACAG 838
QY 592 CCAAGCCGTTGATGAGCTTTTGCCTGATGTCACCATAGCATTTGATGCGGTGCTG 651

Db 839 CCCAAGCCGTGTGGCTTTTTCCTGATGTGGACCATATGTCATCGCCGTGTG 898
Qy 652 CCTCTCTGGGGCTGGAACCTGGAGAACTGGCAATCTGTTTGTCCAGACATTTTCCACAC 711
Db 899 CCTCTCTGGGGCTGGAACCTGGAGAACTGGCAATCTGTTTGTCCAGACATTTTCCACAC 958
Qy 712 ATTGATGAACCTACCTGATGTTCTGGATCGGGGTGCACGAGCTGATCTGTTCTATC 771
Db 959 ATTGATGAACCTACCTGATGTTCTGGATCGGGGTGCACGAGCTGATCTGTTCTATC 1018
Qy 772 GTGATGCGTACATGATATTTCTTGGAAAGCTCACAGCCGCTCCGATGATTCAG 831
Db 1019 GTGATGCGTACATGATATTTCTTGGAAAGCTCACAGCCGCTCCGATGATTCAG 1078
Qy 832 CGTGACCCCAAGAGAGCATCATCCACAGCTCGAGATGGAGAGTACAGGTGACC 891
Db 1079 CGTGACCCCAAGAGAGCATCATCCACAGCTCGAGATGGAGAGTACAGGTGACC 1138
Qy 892 CGGCGACACCAAGCCCGCATGAGCATTTAGTTAGCCAAAGACCTGGTCTGATCCTGTG 951
Db 1139 CGGCGACACCAAGCCCGCATGAGCATTTAGTTAGCCAAAGACCTGGTCTGATCCTGTG 1198
Qy 952 GTGATGATCATCTGCTGGGGCCCTTCTGCTTGAATCATGATGATGATGATGATGATG 1011
Db 1199 GTGATGATCATCTGCTGGGGCCCTTCTGCTTGAATCATGATGATGATGATGATGATG 1258
Qy 1012 ATGAACAGCTCATTAAGACGTTGTTGATTTCTGCAATGCTGCTGCTGCAACTCC 1071
Db 1259 ATGAACAGCTCATTAAGACGTTGTTGATTTCTGCAATGCTGCTGCTGCAACTCC 1318
Qy 1072 ACCGTGAACCCCATCATCTATGCTCTGAGAGATGAGACCTGCGACAGCGTTTCCGGAGC 1131
Db 1319 ACCGTGAACCCCATCATCTATGCTCTGAGAGATGAGACCTGCGACAGCGTTTCCGGAGC 1378
Qy 1132 ATGTTTCCCTCTTGTGAAGGCACTGCGAGCCCTCTGATTAACAGATGAGGAGCTCGAC 1191
Db 1379 ATGTTTCCCTCTTGTGAAGGCACTGCGAGCCCTCTGATTAACAGATGAGGAGCTCGAC 1438
Qy 1192 TGCCGTGCAAAACAGCAAAACATGACAGCTGTTTCAAGGGCCCGCAAAAGCTGCATC 1251
Db 1439 TGCCGTGCAAAACAGCAAAACATGACAGCTGTTTCAAGGGCCCGCAAAAGCTGCATC 1498
Qy 1252 AAGAGCAGCTCAAGATTGCCAAGGTAAACATGTCGTGTCAGACAGACAGCTGCGCAG 1311
Db 1499 AAGAGCAGCTCAAGATTGCCAAGGTAAACATGTCGTGTCAGACAGACAGCTGCGCAG 1558
Qy 1312 GCTCTGTGA 1320
Db 1559 GCTCTGTGA 1567

RESULT 8
ACN38515
ID ACN38515 standard; cDNA; 5471 BP.
XX ACN38515;
XX
DT 18-NOV-2004 (first entry)
XX
DE Tumour-associated antigenic target (TAT) cDNA DNA324834, SEQ ID NO:2079.
XX
XX Tumour-associated antigenic target; TAT; human; overexpression; cancer;
KM colorectal cancer; cell proliferative disorder; breast cancer;
KM colorectal cancer; lung cancer; ovarian cancer; liver cancer;
KM central nervous system cancer; bladder cancer; pancreatic cancer;
KM cervical cancer; melanoma; leukaemia; hybridisation probe;
KM chromosome identification; chromosome mapping; gene mapping;
KM gene therapy; cytostatic; gene; ss.
XX
OS Homo sapiens.
XX
PN WO2004030615-A2.
XX

PD 15-APR-2004.
XX
PF 29-SEP-2003; 2003WO-US028547.
XX
PR 02-OCT-2002; 2002US-0414971P.
XX
PA (GENTECH) GENENTECH INC.
XX
PI Wu TD, Zhang Z, Zhou Y;
XX
DR WPI; 2004-347921/32.
XX
PT New tumor-associated antigenic target polypeptides and nucleic acids,
PT useful in preparing a medicament for treating or detecting a
PT proliferative disorder, e.g. breast, lung, colorectal, ovarian or
PT prostate cancer or tumor.
XX
PS Claim 1; SEQ ID NO 2079; 723bp; English.
XX
CC The invention relates to human tumor-associated antigenic target (TAT)
CC polypeptides, and their related nucleic acids. The TAT polypeptides are
CC overexpressed in cancer tissues compared to normal tissues, and may thus
CC serve as effective targets for the diagnosis and treatment of cancer in
CC mammals. The invention also relates to nucleic acid and polypeptide
CC sequences at least 80% identical to the TAT nucleic acid and polypeptide
CC polypeptides; expression vectors and host cells comprising a TAT nucleic
CC acid; an antibody specific for a TAT polypeptide; a peptide or organic
CC molecule which binds to a TAT polypeptide; fusion proteins comprising a
CC TAT polypeptide; and methods and compositions for the treatment or
CC diagnosis of cancer in mammals. TAT polypeptides, nucleic acids,
CC antibodies, antigens, binding molecules and compositions are useful
CC for diagnosing or treating a cell proliferative disorder associated with
CC increased TAT expression, particularly cancers such as breast cancer,
CC colorectal cancer, lung cancer, ovarian cancer, liver cancer, bladder
CC cancer, pancreatic cancer, cervical cancer, cancers of the central
CC nervous system, melanoma and leukaemia. TAT nucleic acids may further be
CC used as hybridisation probes, in chromosome and gene mapping, in
CC chromosome identification and in gene therapy. The present sequence
CC represents a TAT nucleic acid of the invention
XX
SQ Sequence 5471 BP; 1551 A; 1148 C; 1089 G; 1683 T; 0 U; 0 other;
Query Match 95.3%; Score 1257.8; DB 13; Length 5471;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 162; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
Qy 52 ACTGACCTCTGGAGAGTCCCTTCCAGAGAGATGATCTGCGGGAGACACCCCAAGCTA 111
Db 214 ACTTCCCTTTAGGGAGAGTCCCTTCCAGAGAGATGATCTGCGGGAGACACCCCAAGCTA 273
Qy 112 GTCCAGAGACAGAGTGAACATTACAGATTTTACACAGATCTCTGCTCTTCAAG 171
Db 274 GTCCAGAGACAGAGTGAACATTACAGATTTTACAGATCTCTGCTCTTCAAG 333
Qy 172 GAGATGAGAGGAACATTCATGATGGGAGAACTTCATGACATAGAGTGTTCATGCTC 231
Db 334 GAGATGAGAGGAACATTCATGATGGGAGAACTTCATGACATAGAGTGTTCATGCTC 393
Qy 232 CTGAACCCCAAGCAGAGCTGGCATTGACATGCTCTGCTCCAGCGTGGAGACCTTCAAG 291
Db 394 CTGAACCCCAAGCAGAGCTGGCATTGACATGCTCTGCTCCAGCGTGGAGACCTTCAAG 453
Qy 292 GTCTGAGAGAACTCTGATGCTGTGCTGATCTTCCATCTCCGACGCTTCGTCAGG 351
Db 454 GTCTGAGAGAACTCTGATGCTGTGCTGATCTTCCATCTCCGACGCTTCGTCAGG 513
Qy 352 CTTTCTTACCACTTCACTGAGCGTGGCGGTGGCAACCTCTGAGGAGAGTATTTT 411
Db 514 CTTTCTTACCACTTCACTGAGCGTGGCGGTGGCAACCTCTGAGGAGAGTATTTT 573
Qy 412 GTCTACAGCTTCATGATTCATGATGTTTCCACCGCAAGATAGCCCAAGTGTTCG 471
Db 574 GTCTACAGCTTCATGATTCATGATGTTTCCACCGCAAGATAGCCCAAGTGTTCG 633

472 TTCAAACTGGGTGGGTGACAGGCTCTCTTCACTGCTCCGTTGGGACGCTGTTCTGCA 531
Db TTCAAACTGGGTGGGTGACAGGCTCTCTTCACTGCTCCGTTGGGACGCTGTTCTGCA 693
Qy GCATTCGACAGGTATATATTCATTCAGAGGCCCCCTGAGCTATTAAGAGATTGTCCAGG 591
Db GCATTCGACAGGTATATATTCATTCAGAGGCCCCCTGAGCTATTAAGAGATTGTCCAGG 753
Qy CCCAAGGCGGTGGTGGGCTTTTGGCTGATGTCAGCATATAGCATATGATGCGCGTCTG 651
Db CCCAAGGCGGTGGTGGGCTTTTGGCTGATGTCAGCATATAGCATATGATGCGCGTCTG 813
Qy CCTCTCCGCGGTGGTGAATGCGAGAACTGCAATGTTGTGTGACAGATTTTCCACAC 711
Db CCTCTCCGCGGTGGTGAATGCGAGAACTGCAATGTTGTGTGACAGATTTTCCACAC 873
Qy ATTGATGAACCTTACCTGATGTTCTGATCGGGGTCAACAGGCTACTGCTTCTGTTCAATC 771
Db ATTGATGAACCTTACCTGATGTTCTGATCGGGGTCAACAGGCTACTGCTTCTGTTCAATC 933
Qy GTGATGCGTACATGATATATCTCTGGAAGGCTCAACAGGCTACCGGTCGATGATTGAG 831
Db GTGATGCGTACATGATATATCTCTGGAAGGCTCAACAGGCTACCGGTCGATGATTGAG 993
Qy CGTGCAACCCAGAAAGATCATCATCAACGTCGAGAGAGAGAGAGAGAGAGAGAGAGAG 891
Db CGTGCAACCCAGAAAGATCATCATCAACGTCGAGAGAGAGAGAGAGAGAGAGAGAGAG 1053
Qy CGGCGACAGCAAGCCCGCATGAGCATTAAGGTTAGCAAGACCTGCTGCTGATCTGCTG 951
Db CGGCGACAGCAAGCCCGCATGAGCATTAAGGTTAGCAAGACCTGCTGCTGATCTGCTG 1113
Qy GTGTTGATCATCTGCTGGGGCCCTTCTGCTGCAATCATGTTGATGATGTTGGGAG 1011
Db GTGTTGATCATCTGCTGGGGCCCTTCTGCTGCAATCATGTTGATGATGTTGGGAG 1173
Qy ATGAACAGCTCATTAAGCGGTGTTGCAATTCGCAAGTCTGCTGCTGTAACCTC 1071
Db ATGAACAGCTCATTAAGCGGTGTTGCAATTCGCAAGTCTGCTGCTGTAACCTC 1233
Qy ACCGGAACCCCATCATGCTCTGAGAGTAAAGACCTGCGACAGCTTTCCGAGC 1131
Db ACCGGAACCCCATCATGCTCTGAGAGTAAAGACCTGCGACAGCTTTCCGAGC 1293
Qy ATGTTTCCCTCTTGAAGGCACTGCGAGCCTCTGATTAACAGATGCGGGAATCGGAC 1191
Db ATGTTTCCCTCTTGAAGGCACTGCGAGCCTCTGATTAACAGATGCGGGAATCGGAC 1353
Qy TGCCGTCACAAACAGCAAGCAATGACGCAATGTTTCAAGGCGCGCAAGAAAGCTGCAATC 1251
Db TGCCGTCACAAACAGCAAGCAATGACGCAATGTTTCAAGGCGCGCAAGAAAGCTGCAATC 1413
Qy AAGAGCAGGTCGAATTGTCGAAGTAAACATGTCGTGTCCAGACAGACAGCTGCTCGAG 1311
Db AAGAGCAGGTCGAATTGTCGAAGTAAACATGTCGTGTCCAGACAGACAGCTGCTCGAG 1473
Qy GCTCTGTGA 1320
Db GCTCTGTGA 1482

RESULT 9
AEA81160
ID AEA81160 standard; DNA; 5480 BP.

AC AEA81160;

DT 25-AUG-2005 (first entry)

DE Human cannabinoid receptor 1 (brain) variant 1 DNA.

XX screening; obesity; nutritional disorder; anorectic; ds; gene;

KW cannabinoid receptor 1.
OS Homo sapiens.
PN US2005136465-A1.
XX 23-JUN-2005.
PD 22-DEC-2004; 2004US-00019829.
XX 22-DEC-2003; 2003EP-00104902.
PR (CLER/) CLERC R G.
PA (DUCH/) DUCHATEAU-NGUYEN G.
PA (GARD/) GARDES C.
PA (MIZR/) MIZRAHI J.
PA (OSTE/) OSTENSON C.
PI Clerc RG, Duchateau-Nguyen G, Gardes C, Mizrahi J, Ostenson C;
XX WPI; 2005-457507/46.
DR P-PSDB; AEA81221.
XX Screening test compounds that reduce and/or prevent obesity involves
PT contacting cell expressing gene from alpha-two-glycoprotein.
PS Claim 8; SEQ ID NO 27; 21pp; English.
CC The invention relates to a novel method for screening for test compounds
CC that reduce and/or prevent obesity. The method comprises contacting a
CC cell expressing a gene selected from SEQ ID NO. 1-12 or 25-85, with a
CC compound. The method of the invention demonstrates anorectic applications
CC and may be useful for screening for compounds that reduce and/or prevent
CC obesity. The current sequence is that of the human cannabinoid receptor 1
CC (brain) variant 1 DNA of the invention. The sequence listing for the
XX specification can be located via the USPTO web-site.
SQ Sequence 5480 BP; 1560 A; 1148 C; 1089 G; 1683 T; 0 U; 0 Other;
Query Match 95.3%; Score 1257.8; DB 14; Length 5480;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1262; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
Qy 52 ACTGACCTCCGAGGAGGCTTCCAGAGAGATGATGCGGGAGCAACCCCAAGTA 111
Db 214 ACTTCCTTAGGGAGAGCTCTCCAGAGAGATGATGCGGGAGCAACCCCAAGTA 273
Qy 112 GTCCAGACAGACAGGTGAACATTACAGATTATTAACAAGTCTCTGCTTCAAG 171
Db 274 GTCCAGACAGACAGGTGAACATTACAGATTATTAACAAGTCTCTGCTTCAAG 333
Qy 172 GAGAAATGAGGAACATTCAGTGTGGGAGAACCTTCATGACATAGAGTGTTCATGCTC 231
Db 334 GAGAAATGAGGAACATTCAGTGTGGGAGAACCTTCATGACATAGAGTGTTCATGCTC 393
Qy 232 CTGAACCCCAAGCCAGAGCTGGCAATGCAATGCTGCTGCTCAAGCTGGGACCTTCAAG 291
Db 394 CTGAACCCCAAGCCAGAGCTGGCAATGCAATGCTGCTGCTCAAGCTGGGACCTTCAAG 453
Qy 292 GTCCGAGAACTCTGAGTGTGCTGCTGCTCAATCTCCAGAGCTCCGCTGCAAG 351
Db 454 GTCCGAGAACTCTGAGTGTGCTGCTGCTCAATCTCCAGAGCTCCGCTGCAAG 513
Qy 352 CTTCTTACACATTCATGCGAGCTTGCGGCTGGGACACTCTCTGGGAGATGATTTT 411
Db 514 CTTCTTACACATTCATGCGAGCTTGCGGCTGGGACACTCTCTGGGAGATGATTTT 573
Qy 412 GTCTAGAGCTTATGATTCATGATGTTTCAACCGCAAGATAGCGGCAAGTGTGCTG 471
Db 574 GTCTAGAGCTTATGATTCATGATGTTTCAACCGCAAGATAGCGGCAAGTGTGCTG 633
Qy 472 TTCAAACTGGGTGGGTGACAGGCTCTCTTCACTGCTCCGTTGGGACGCTGTTCTGCA 531

Db 634 TTCAACTGGGTGGGTCAAGGCTCTCTCACTGCTCCGCGGAGCGCTGTTCTTCACA 693
 Qy 532 GGCATCGAAGGTACATATCCATTCACAGCCCTGCTTAAAGAGATTGTCAACAG 591
 Db 694 GGCATCGAAGGTACATATCCATTCACAGCCCTGCTTAAAGAGATTGTCAACAG 753
 Qy 592 CCCAAGGCGGTGTAGCGTTTGGCCGTGATGTGAGACCATGAGCCATTGTGACCGGCTG 651
 Db 754 CCCAAGGCGGTGTAGCGTTTGGCCGTGATGTGAGACCATGAGCCATTGTGACCGGCTG 813
 Qy 652 CCTCTCTGGGTGAACTGCGAAGAACTGCAATCTGTTGCTCAGACATTTTCCACAC 711
 Db 814 CCTCTCTGGGTGAACTGCGAAGAACTGCAATCTGTTGCTCAGACATTTTCCACAC 873
 Qy 712 ATTGATGAACCTTACTGATGTTTCTGATGCGGGGTGACAGGGTACTGCTTCTGTTATC 771
 Db 874 ATTGATGAACCTTACTGATGTTTCTGATGCGGGGTGACAGGGTACTGCTTCTGTTATC 933
 Qy 772 GTGTATGCGTACATGATATTTCTGTAAGAGGCTCAGAGCCGCTCGAGATTCAG 831
 Db 934 GTGTATGCGTACATGATATTTCTGTAAGAGGCTCAGAGCCGCTCGAGATTCAG 993
 Qy 832 CGTGACACCCAGAGAGCATCATCCACAGCTGAGATGGAAGGTACAGGTGACC 891
 Db 994 CGTGACACCCAGAGAGCATCATCCACAGCTGAGATGGAAGGTACAGGTGACC 1053
 Qy 892 CGGCGAAGCAAGCCCGCATGACATTAAGGTAAAGCCCTGCTCTGATCTGCTG 951
 Db 1054 CGGCGAAGCAAGCCCGCATGACATTAAGGTAAAGCCCTGCTCTGATCTGCTG 1113
 Qy 952 GTGTATGATCATGCTGCGGGCCCTGCTGTAATCATATGATGATGATGATGATGATG 1011
 Db 1114 GTGTATGATCATGCTGCGGGCCCTGCTGTAATCATATGATGATGATGATGATGATG 1173
 Qy 1012 ATGAACAAGCTCATTAAGACGGTGTGATTCGTCAGATGCTGCTGCTGTAATCC 1071
 Db 1174 ATGAACAAGCTCATTAAGACGGTGTGATTCGTCAGATGCTGCTGCTGTAATCC 1233
 Qy 1072 ACCGTGAACCCCATCATCTATGCTGTAAGAGTAAAGACCTGCGACAGCTTCCGAGC 1131
 Db 1234 ACCGTGAACCCCATCATCTATGCTGTAAGAGTAAAGACCTGCGACAGCTTCCGAGC 1293
 Qy 1132 ATGTTTCCCTCTTGAAGAGCATGCGAGCCTCTGATTAACAGATGGGGGACTCGAGC 1191
 Db 1294 ATGTTTCCCTCTTGAAGAGCATGCGAGCCTCTGATTAACAGATGGGGGACTCGAGC 1353
 Qy 1192 TGCTGCAACAACGCAACATGACAGCAAGTGTTCACAGGCGCGAAGAGCTGCATC 1251
 Db 1354 TGCTGCAACAACGCAACATGACAGCAAGTGTTCACAGGCGCGAAGAGCTGCATC 1413
 Qy 1252 AAGAGCAGGTCAGATTGCGCAAGTAAACATGTCGTGTCACAGACAGCTGCGCAG 1311
 Db 1414 AAGAGCAGGTCAGATTGCGCAAGTAAACATGTCGTGTCACAGACAGCTGCGCAG 1473
 Qy 1312 GCTCTGTGA 1320
 Db 1474 GCTCTGTGA 1482

KW prostate cancer; colon cancer; polycystic ovarian syndrome.
 XX Homo sapiens.
 OS
 PN US2003096272-A1.
 XX
 PD 22-MAY-2003.
 XX
 PF 29-JUL-2002; 2002US-00208408.
 XX
 PR 30-JUL-2001; 2001US-0308868P.
 PA (INCY-) INCYTE GENOMICS INC.
 XX
 PI Schebye XM;
 XX
 DR WPI; 2003-606416/57.
 XX
 PT New combination comprising several cDNAs, useful for preparing a
 PT composition for diagnosing or treating diabetes mellitus, obesity,
 PT hypertension, atherosclerosis, or cancer of the breast, prostate or
 PT colon.
 PS
 XX
 PS Claim 1, Page 75-77; 84pp; English.
 CC Then invention relates to a new combination comprising 55 cDNAs (ADA24485
 CC -ADA24539) or their complements that are differentially regulated in an
 CC adipose sample. Also included are detecting differential expression of
 CC one or more cDNAs in a sample containing nucleic acids, screening several
 CC molecules or compounds to identify a ligand that specifically binds a
 CC cDNA, a vector comprising the cDNA, a host cell containing the vector,
 CC producing a protein, screening several molecules or compounds, producing
 CC an antibody and the isolated antibody. The cDNAs comprise sequences which
 CC are upregulated or downregulated in response to peroxisome proliferator-
 CC activated receptor gamma (PPARGamma) agonist. The combination comprising
 CC several cDNAs is useful for preparing a composition for diagnosing or
 CC treating diabetes mellitus, obesity, hypertension, atherosclerosis, or
 CC cancer of the breast, prostate or colon, or polycystic ovarian syndrome.
 XX
 SQ Sequence 5653 BP; 1601 A; 1185 C; 1117 G; 1750 T; 0 U; 0 Other;
 Query Match 95.3%; Score 1257.8; DB 9; Length 5653;
 Best Local Similarity 99.4%; Pred. No. 0;
 Matches 1662; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
 Qy 52 ACTGACCTCTGGAAGTCCCTCCAGAGAGATGACTGCGGAGACACCCCAAGCTA 111
 Db 260 ACTTCCTTTAGGGGAAGTCCCTCCAGAGAGATGACTGCGGAGACACCCCAAGCTA 319
 Qy 112 GTCCAGCAGACGAGTGAACATTAAGATTTTCAACAAAGTCTCTGCTCTTCAAG 171
 Db 320 GTCCAGCAGACGAGTGAACATTAAGATTTTCAACAAAGTCTCTGCTCTTCAAG 379
 Qy 172 GAGATGAGGAGATCATCGATGCGGAGAACTTCAATGACATTAAGTGTTCATGCTC 231
 Db 380 GAGATGAGGAGATCATCGATGCGGAGAACTTCAATGACATTAAGTGTTCATGCTC 439
 Qy 232 CTGAACCCCAAGCAGAGCTGCGCATTCAGTCTGTCCTCAAGCTGAGCACTTCAAG 291
 Db 440 CTGAACCCCAAGCAGAGCTGCGCATTCAGTCTGTCCTCAAGCTGAGCACTTCAAG 499
 Qy 292 GTCTGGAAGAACTCTGCTGCTGCTCATCTCCATCTCCGAGACCTCCGCTGACG 351
 Db 500 GTCTGGAAGAACTCTGCTGCTGCTCATCTCCATCTCCGAGACCTCCGCTGACG 559
 Qy 352 CTTCTTACGACTCATGCGAGCGTGGCGGTGGAGACCTCTGGGGAGTGTATTTT 411
 Db 560 CTTCTTACGACTCATGCGAGCGTGGCGGTGGAGACCTCTGGGGAGTGTATTTT 619
 Qy 412 GTCTACAGCTTCAATGACTTCAAGTGTTCACAGCGCAAGATAGCCGCAAGTGTCTG 471
 Db 620 GTCTACAGCTTCAATGACTTCAAGTGTTCACAGCGCAAGATAGCCGCAAGTGTCTG 679

QY 472 TTCAAAGTGGTGGGTCACAGGCTCTTCACTGCGCTCGGTGGGAGCGCTGTTCTCTACA 531
|
|
|
Db 680 TTCAAAGTGGTGGGTCACAGGCTCTTCACTGCGCTCGGTGGGAGCGCTGTTCTCTACA 739
|
|
|
QY 532 GCCATCGACAGGTACATATCCATTCAAGAGCCCTGAGCTATTAAGAGATTGTCCAGG 591
|
|
|
Db 740 GCCATCGACAGGTACATATCCATTCAAGAGCCCTGAGCTATTAAGAGATTGTCCAGG 799
|
|
|
QY 592 CCCAAGGCGGTGGTGGGTCACAGGCTCTTCACTGCGCTCGGTGGGAGCGCTGTTCTCTACA 651
|
|
|
Db 800 CCCAAGGCGGTGGTGGGTCACAGGCTCTTCACTGCGCTCGGTGGGAGCGCTGTTCTCTACA 859
|
|
|
QY 652 CCTCTCTGCGGTGGTGGGTCACAGGCTCTTCACTGCGCTCGGTGGGAGCGCTGTTCTCTACA 711
|
|
|
Db 860 CCTCTCTGCGGTGGTGGGTCACAGGCTCTTCACTGCGCTCGGTGGGAGCGCTGTTCTCTACA 919
|
|
|
QY 712 ATTGAATGAACCTTACCTGATGTTCTGATTCGGGGTCAACAGGTTACTGCTTCTGTTCAATC 771
|
|
|
Db 920 ATTGAATGAACCTTACCTGATGTTCTGATTCGGGGTCAACAGGTTACTGCTTCTGTTCAATC 979
|
|
|
QY 772 GTGATGCGTACATGATATATCTCTGGAAGCTCAACCCAGCGCTCGGATGATTCAG 831
|
|
|
Db 980 GTGATGCGTACATGATATATCTCTGGAAGCTCAACCCAGCGCTCGGATGATTCAG 1039
|
|
|
QY 832 CGTGGCAACCAAGAGAGATCATCATCAACGTCGAGATGGAGATGAGATGAGTACAGTGAAC 891
|
|
|
Db 1040 CGTGGCAACCAAGAGAGATCATCATCAACGTCGAGATGGAGATGAGATGAGTACAGTGAAC 1099
|
|
|
QY 892 CGGCGACCAAGAGAGATCATCATCAACGTCGAGATGGAGATGAGATGAGTACAGTGAAC 951
|
|
|
Db 1100 CGGCGACCAAGAGAGATCATCATCAACGTCGAGATGGAGATGAGATGAGTACAGTGAAC 1159
|
|
|
QY 952 GTGATGCGTACATGATATATCTCTGGAAGCTCAACCCAGCGCTCGGATGATTCAG 1011
|
|
|
Db 1160 GTGATGCGTACATGATATATCTCTGGAAGCTCAACCCAGCGCTCGGATGATTCAG 1219
|
|
|
QY 1012 ATGAACAAGCTCATTAAGACGGTGTTCATCTGCAATGATGCTGCTGCAATCTCC 1071
|
|
|
Db 1220 ATGAACAAGCTCATTAAGACGGTGTTCATCTGCAATGATGCTGCTGCAATCTCC 1279
|
|
|
QY 1072 ACCGTGAACCCATCATGATGCTCTGGAAGCTCAACCCAGCGCTCGGATGATTCAG 1131
|
|
|
Db 1280 ACCGTGAACCCATCATGATGCTCTGGAAGCTCAACCCAGCGCTCGGATGATTCAG 1339
|
|
|
QY 1132 ATGTTTCCCTCTGGAAGCTCAACCCAGCGCTCGGATGATTCAG 1191
|
|
|
Db 1340 ATGTTTCCCTCTGGAAGCTCAACCCAGCGCTCGGATGATTCAG 1399
|
|
|
QY 1192 TGCCGTGCAAAACGCAAAAGATGCAAGCTGTTCAAGGCGCGAAGAGCTGCAATC 1251
|
|
|
Db 1400 TGCCGTGCAAAACGCAAAAGATGCAAGCTGTTCAAGGCGCGAAGAGCTGCAATC 1459
|
|
|
QY 1252 AAGAGCAGGTCAAGATGCTGCAAGGTAACATGCTGTTGTCACAGACAGCTGCTGCAAG 1311
|
|
|
Db 1460 AAGAGCAGGTCAAGATGCTGCAAGGTAACATGCTGTTGTCACAGACAGCTGCTGCAAG 1519
|
|
|
QY 1312 GCTCTGGA 1320
|
|
|
Db 1520 GCTCTGGA 1528
|
|
|

RESULT 11

ADH77049
ID ADH77049 standard; DNA; 1419 BP.

XX AC ADH77049;

XX DT 22-APR-2004 (first entry)

XX DB hCB-1 double constitutive mutant encoding DNA, SEQ ID 2.

XX KW Anorectic; neuroprotective; cardiovascular; respiratory;
KW gastrointestinal; cannabinoid; CB₁ receptor; obesity; psychiatric;KW neurological; immune; cardiovascular; reproductive; endocrine; disorder;
KW respiratory; gastrointestinal; hCB-1 D213A; mutant; ds.

OS Homo sapiens.

OS Synthetic.

FN WO2004008150-A1.

XX 22-JAN-2004.

XX 14-JUL-2003; 2003WO-GB003066.

XX 17-JUL-2002; 2002SR-00002242.

XX (ASTR) ASTRAZENCA AB.

XX (ASTR) ASTRAZENCA UK LTD.

XX Greasley P;

XX WPI; 2004-143121/14.

PT Identifying an inverse agonist of a cannabinoid (CB) receptor, useful in
PT treating obesity, psychiatric and neurological disorders, comprises

PT contacting a test inhibitory agent with constitutively active CB

XX receptor.

XX Claim 24; SEQ ID NO 2; 31pp; English.

CC The invention relates to a method for identifying an inverse agonist of a

CC cannabinoid (CB) receptor comprising contacting a CB receptor test

CC inhibitory agent with the cell expressing the constitutively active CB

CC receptor. The method is useful in identifying an inverse agonist of a CB

CC receptor. The true antagonist or inverse agonist is useful in preparing a

CC medicament for treating or preventing a disorder associated with a CB

CC receptor. The disorder is obesity, psychiatric and neurological

CC disorders. They are also useful in treating immune cardiovascular,

CC reproductive and endocrine disorders and also diseases related to

CC respiratory and gastrointestinal systems. The current sequence represents

CC the hCB-1 double constitutive mutant encoding DNA.

XX Sequence 1419 BP; 320 A; 410 C; 355 G; 334 T; 0 U; 0 Other;

SQ Query Match 95.2%; Score 1256.2; DB 12; Length 1419;

XX Best Local Similarity 99.4%; Pred. No. 0;

XX Matches 1261; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 52 ACTGACCTCTGGAAGTCTTCCAAAGAGATGACTGCGGAGACACCCAGCTA 111

Db 151 ACTTCTTTAGGGGAAGTCCCTTCAAGAGATGACTGCGGAGACACCCAGCTA 210

QY 112 GTCCAGAGACGAGTGAACATTAAGAAATTTTACAAGTCTCTGCTCTCAAG 171

Db 211 GTCCAGAGACGAGTGAACATTAAGAAATTTTACAAGTCTCTGCTCTCAAG 270

QY 172 GAGATGAGAGAACATTCAGTGGGAGAACTTCAATGACATAGAGTGTTCATGATC 231

Db 271 GAGATGAGAGAACATTCAGTGGGAGAACTTCAATGACATAGAGTGTTCATGATC 330

QY 232 CTGAACCCAGCAGCAGCTGCAATGCAAGTCTGTCCTTCAAGCTGCGGACCTTCAAG 291

Db 331 CTGAACCCAGCAGCAGCTGCAATGCAAGTCTGTCCTTCAAGCTGCGGACCTTCAAG 390

QY 292 GTCCAGAGACGAGTGAACATTAAGAAATTTTACAAGTCTCTGCTCTCAAG 351

Db 391 GTCCAGAGACGAGTGAACATTAAGAAATTTTACAAGTCTCTGCTCTCAAG 450

QY 352 CTTCTCAACATTCATGCGAGCTGCGGAGAGCTCTGCGGAGAGTCAATTTT 411

Db 451 CTTCTCAACATTCATGCGAGCTGCGGAGAGCTCTGCGGAGAGTCAATTTT 510

QY 412 GTCTACAGCTTCAATGATTCATGATTCATGATTCATGATTCATGATTCATGATTCATG 471

Db 511 GTCTACAGCTTCAATGATTCATGATTCATGATTCATGATTCATGATTCATGATTCATG 570

QY 472 TTCAACCTGGGTGGGCTGACGGCTCTTCACTGCTCCGTGGGGACCTGTTCTTCA 531
 DB 571 TTCAACCTGGGTGGGCTGACGGCTCTTCACTGCTCCGTGGGGACCTGTTCTTCA 630
 QY 532 GGCATGACAGGTATCATTCATTCACAGGCCCTGAGCCATTAAGAGATTGTCAACAG 591
 DB 631 GGCATGACAGGTATCATTCATTCACAGGCCCTGAGCCATTAAGAGATTGTCAACAG 690
 QY 592 CCCAAGGCGGTGAGCTGTTTGGCTGATGTGACCAATGACCATTTGTATGCGCGTGTG 651
 DB 691 CCCAAGGCGGTGAGCTGTTTGGCTGATGTGACCAATGACCATTTGTATGCGCGTGTG 750
 QY 652 CCTCTCTGGGGCTGGAAGCTGGGGAATCTGTTTGGCTGACCAATTTTCCACAC 711
 DB 751 CCTCTCTGGGGCTGGAAGCTGGGGAATCTGTTTGGCTGACCAATTTTCCACAC 810
 QY 712 ATTGATGAACCTACCTGATGTTCTGGAATCGGGGTACAGAGCTGATCTGTTCTATC 771
 DB 811 ATTGATGAACCTACCTGATGTTCTGGAATCGGGGTACAGAGCTGATCTGTTCTATC 870
 QY 772 GTGATGCTGATGATTAATTTCTTGGAAAGCTCACAGCCAGCCGTCCGATGATTGAG 831
 DB 871 GTGATGCTGATGATTAATTTCTTGGAAAGCTCACAGCCAGCCGTCCGATGATTGAG 930
 QY 832 CGTGGCAACCCAGAGAGCATCATCCACAGCTGAGAGATGGAGAGTACAGGTGACC 891
 DB 931 CGTGGCAACCCAGAGAGCATCATCCACAGCTGAGAGATGGAGAGTACAGGTGACC 990
 QY 892 CGGCGAGACCAAGCCGCAATGAGCATTAAGTTCAGCAAGCCCTGATCTGATCTGATG 951
 DB 991 CGGCGAGACCAAGCCGCAATGAGCATTAAGTTCAGCAAGCCCTGATCTGATCTGATG 1050
 QY 952 GTGTTGATCATCTGCTGGGGCCCTCTGCTTGAATCATGATGATGATGATGATGATG 1011
 DB 1051 GTGTTGATCATCTGCTGGGGCCCTCTGCTTGAATCATGATGATGATGATGATGATG 1110
 QY 1012 ATGAACAAGCTCATTAAGAGCGGTGTTGATTTGCAAGTATCTGCTGCTGCAATCTC 1071
 DB 1111 ATGAACAAGCTCATTAAGAGCGGTGTTGATTTGCAAGTATCTGCTGCTGCAATCTC 1170
 QY 1072 ACCGTGAACCCCATCATCTATGCTCTGAGAGATTAAGACCTGCGACAGCTTCCGAGC 1131
 DB 1171 ACCGTGAACCCCATCATCTATGCTCTGAGAGATTAAGACCTGCGACAGCTTCCGAGC 1230
 QY 1132 ATGTTTCCCTCTTGGAAAGCACTGCGAGCCCTGAGATTAACAGCATGGGGAGCTCGAGC 1191
 DB 1231 ATGTTTCCCTCTTGGAAAGCACTGCGAGCCCTGAGATTAACAGCATGGGGAGCTCGAGC 1290
 QY 1192 TGCCGTGCAAAACAGGCAAAAGATGACGACATGTTTCAAGGGCCGCAAAAGCTGCAATC 1251
 DB 1291 TGCCGTGCAAAACAGGCAAAAGATGACGACATGTTTCAAGGGCCGCAAAAGCTGCAATC 1350
 QY 1252 AAGAGCAGGCTCAAGATTGCAAGGTAAACATGTCTGTGTCACAGACAGCTGTGCGAG 1311
 DB 1351 AAGAGCAGGCTCAAGATTGCAAGGTAAACATGTCTGTGTCACAGACAGCTGTGCGAG 1410
 QY 1312 GCTCTGTGA 1320
 DB 1411 GCTCTGTGA 1419

RESULT 12

ADH77050 standard; DNA, 1419 BP.

ADH77050;

22-APR-2004 (first entry)

hCB-1-D213A constitutive mutant encoding DNA, SEQ ID 3.

Anorectic; neuroprotective; cardiovascular; respiratory;

KW Gastrointestinal; cannabinoid; CB₁ receptor; obesity; psychiatric;
 KW neurological; immune; cardiovascular; reproductive; endocrine; disorder;
 KW respiratory; gastrointestinal; hCB-1-D213A; mutant; ds.
 OS Homo sapiens.
 OS Synthetic.
 PN MO2004008150-A1.
 XX
 PD 22-JAN-2004.
 XX
 PF 14-JUL-2003; 2003MO-GB003066.
 XX
 PR 17-JUL-2002; 2002SE-00002242.
 XX
 PA (ASTR) ASTRAZENeca AB.
 PA (ASTR) ASTRAZENeca UK LTD.
 XX
 PI Greasley P;
 XX
 DR WPI; 2004-143121/14.
 XX
 PT Identifying an inverse agonist of a cannabinoid (CB) receptor, useful in
 PT treating obesity, psychiatric and neurological disorders, comprises
 PT contacting a test inhibitory agent with constitutively active CB
 PT receptor.
 PS
 PS Claim 24; SEQ ID NO 3; 31pp; English.
 XX
 CC The invention relates to a method for identifying an inverse agonist of a
 CC cannabinoid (CB) receptor comprising contacting a CB receptor test
 CC inhibitory agent with the cell expressing the constitutively active CB
 CC receptor. The method is useful in identifying an inverse agonist of a CB
 CC receptor. The true antagonist or inverse agonist is useful in preparing a
 CC medicament for treating or preventing a disorder associated with a CB
 CC receptor. The disorder is obesity, psychiatric and neurological
 CC disorders. They are also useful in treating immune cardiovascular,
 CC reproductive and endocrine disorders and also diseases related to
 CC respiratory and gastrointestinal systems. The current sequence represents
 CC the hCB-1-D213A constitutive mutant encoding DNA.
 XX
 SQ Sequence 1419 BP; 320 A; 410 C; 355 G; 334 T; 0 U; 0 Other;
 Query Match 95.2%; Score 1256.2; DB 12; Length 1419;
 Best Local Similarity 99.4%; Pred. No. 0;
 Matches 1261; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
 QY 52 ACTGACCTCTGAGGAAATCCCTTCCAGAGAAATGATGAGGAGAGCAACCCAGACTA 111
 DB 151 ACTTCTTTAGGGAAGTCCCTTCCAGAGAAATGATGAGGAGAGCAACCCAGACTA 210
 QY 112 GTCCAGAGAGACAGGTGAATTAAGAAATTTTCAACAAGTCTCTGCTCTTCAAG 171
 DB 211 GTCCAGAGAGACAGGTGAATTAAGAAATTTTCAACAAGTCTCTGCTCTTCAAG 270
 QY 172 GAGAAATGAGAGAAATTCAGTGTGGGAGAACTTCATGACATTAAGTGTTCATGTC 231
 DB 271 GAGAAATGAGAGAAATTCAGTGTGGGAGAACTTCATGACATTAAGTGTTCATGTC 330
 QY 232 CTGAACCCGACGACGACCTGAGCCATTCAGTCCCTGCTCCAGCTGAGCACTTCAAG 291
 DB 331 CTGAACCCGACGACGACCTGAGCCATTCAGTCCCTGCTCCAGCTGAGCACTTCAAG 390
 QY 292 GTCTGTGAGAACTCTGAGTGTGCTGATCTCTCACTCCGAGCTCCGCTGACAG 351
 DB 391 GTCTGTGAGAACTCTGAGTGTGCTGATCTCTCACTCCGAGCTCCGCTGACAG 450
 QY 352 CTTTCTTACCACTTCATGAGGAGAGCTGAGGAGAGCTCTGAGGAGGTCATTTT 411
 DB 451 CTTTCTTACCACTTCATGAGGAGAGCTGAGGAGAGCTCTGAGGAGGTCATTTT 510
 QY 412 GTCTACAGCTTCATTAAGCTTCAAGTGTTCACGAGCAAGATAGCCGAGGTTTCTG 471

Db 511 GTCTACAGCTTCATTGACTTCCACGCTGTTCCACCCGCAAGATAGCCGCAACGCTGTTCTG 570
 Qy 472 TTCAACTGGGAGGGGTCACGGGCTCTTCACTGCTCCGCTGGGAGAGCTGTTCTCTCA 531
 Db 571 TTCAACTGGGAGGGGTCACGGGCTCTTCACTGCTCCGCTGGGAGAGCTGTTCTCTCA 630
 Qy 532 GCCATCGACAGGTACATATCCATTCAACAGGCCCTGCGCTATAGAGATTTGACACAG 591
 Db 631 GCCATCGACAGGTACATATCCATTCAACAGGCCCTGCGCTATAGAGATTTGACACAG 690
 Qy 552 CCCAAGCGCGTGTAGCTGTTGCTGATGTGACCAATGCCATTTGTATGCGCGTGTG 651
 Db 651 CCCAAGCGCGTGTAGCTGTTGCTGATGTGACCAATGCCATTTGTATGCGCGTGTG 750
 Qy 652 CCTCTCTGGGGTGGAACTGGAGAACTGCAATGCTGTTGCTGACACTTTTCCACAC 711
 Db 751 CCTCTCTGGGGTGGAACTGGAGAACTGCAATGCTGTTGCTGACACTTTTCCACAC 810
 Qy 712 ATTGATGAACCTTACCTGATGTTCTGATCCGGGTCACACGCTACTGCTTCTGTTCAATC 771
 Db 811 ATTGATGAACCTTACCTGATGTTCTGATCCGGGTCACACGCTACTGCTTCTGTTCAATC 870
 Qy 772 GTGATGCGTACATGATATTTCTTGAAAGCTCAACGACCGCTCCGATGATTCAG 831
 Db 871 GTGATGCGTACATGATATTTCTTGAAAGCTCAACGACCGCTCCGATGATTCAG 930
 Qy 832 CGTGACCCCGAAGAAGCATCATCCACAGCTCGAGATGGAGATGAGTACAGTGAAC 891
 Db 931 CGTGACCCCGAAGAAGCATCATCCACAGCTCGAGATGGAGATGAGTACAGTGAAC 990
 Qy 892 CGGCCAGACCAAGCCCGCATGAGCATTAAGTTAGCCAAAGACCCTGCTCTGATCTCTG 951
 Db 991 CGGCCAGACCAAGCCCGCATGAGCATTAAGTTAGCCAAAGACCCTGCTCTGATCTCTG 1050
 Qy 952 GTGTGATCATCTGCTGGGCGCTCTGCTGTAATCAATGATGATGATGATGATGATGATG 1011
 Db 1051 GTGTGATCATCTGCTGGGCGCTCTGCTGTAATCAATGATGATGATGATGATGATGATG 1110
 Qy 1012 ATGAACAAGCTCATTAAGACGGTGTGTCATCTGCAAGTACTGCGCTGTAACCTCC 1071
 Db 1111 ATGAACAAGCTCATTAAGACGGTGTGTCATCTGCAAGTACTGCGCTGTAACCTCC 1170
 Qy 1072 ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAAGACCTGCGACACGCTTCCGAGAC 1131
 Db 1171 ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAAGACCTGCGACACGCTTCCGAGAC 1230
 Qy 1132 ATGTTCCCTCTTGTGAAGGACCTGCGACGCTCTGATTAACAGCATGGGGGACTCGGAC 1191
 Db 1231 ATGTTCCCTCTTGTGAAGGACCTGCGACGCTCTGATTAACAGCATGGGGGACTCGGAC 1290
 Qy 1192 TGCCGTGACAAACAGCAAAACATGACGACAGTGTTCACAGGGCGCGAAGAAAGCTGCATC 1251
 Db 1251 TGCCGTGACAAACAGCAAAACATGACGACAGTGTTCACAGGGCGCGAAGAAAGCTGCATC 1350
 Qy 1252 AAGAGCAGCGTCAAGATTGCCAAGGTAAACATGTCTGTGTCCACAGACACGCTCTCCGAG 1311
 Db 1351 AAGAGCAGCGTCAAGATTGCCAAGGTAAACATGTCTGTGTCCACAGACACGCTCTCCGAG 1410
 Qy 1312 GCTCTGTGA 1320
 Db 1411 GCTCTGTGA 1419

RESULT 13

ADO29849 standard; cDNA, 1419 BP.

ADO29849;

29-JUL-2004 (first entry)

Human GPCR CNR1 polynucleotide, SEQ ID NO:951.

DE

XX

KW G protein-coupled receptor; GPCR; drug screening; diagnosis;
 KW transgenic mouse; neurological disorder; adrenal gland disorder;
 KW colon disorder; intestinal disorder; cardiovascular disorder;
 KW muscular disorder; blood disorder; immune disorder; bone disorder;
 KW joint disorder; metabolic disorder; nutritive disorder; cancer;
 KW kidney disorder; liver disorder; lung disorder; breast disorder;
 KW ovary disorder; uterus disorder; prostate disorder; testis disorder;
 KW skin disorder; stomach disorder; pancreas disorder; spleen disorder;
 KW thymus disorder; thyroid disorder; antiparkinsonian; antianemic;
 KW cytoskeletal; antiinflammatory; vasotropic; antianginal; antiarrhythmic;
 KW CNS; central nervous system; respiratory; antidiabetic; antidiabetic;
 KW virucide; hepatotropic; antibacterial; antianemic; antiseborrheic;
 KW dermatological; antitumor; antithyroid; antiallergic; anorectic;
 KW immunosuppressive; nephrotropic; gene therapy; GPCR modulator; human;
 KW gene; ss.
 OS Homo sapiens.
 PN WO2004040000-A2.
 XX 13-MAY-2004.
 PD 09-SEP-2003; 2003WO-US028226.
 PF 09-SEP-2002; 2002US-0409303P.
 XX 09-APR-2003; 2003US-0461329P.
 PR (PRIM-) PRIMAL INC.
 XX Galtanaris GA, Bergmann JE, Gragerov A, Hohmann J, Li F,
 PI Madisen J, McIlwain KL, Pavlova MN, Vassiliadis D, Zeng H;
 XX MPI; 2004-390329/36.
 DR P-PSDB; ADO29261.
 XX Novel mammalian G protein coupled receptors, useful for identifying
 PT compounds that modulates diagnosing and treating disease condition
 PT associated with GPCR dysfunction e.g. autoimmune diseases, angina
 PT pectoris, Parkinson's disease.
 XX Claim 151; SEQ ID NO 951; 542pp; English.
 PS The invention relates to human and mouse G protein-coupled receptors
 CC (GPCRs) and nucleic acids encoding them. The invention also relates to
 CC sequences at least 90% identical to the GPCR proteins and nucleic acids
 CC of the invention; methods of treating, preventing or diagnosing diseases
 CC associated with GPCRs of the invention; methods of screening for
 CC compounds useful in the treatment of GPCR-related diseases; a transgenic
 CC mouse comprising a GPCR gene of the invention; a mouse comprising a
 CC mutation in a GPCR transgene or in an endogenous GPCR gene; cells derived
 CC from the transgenic mice; kits comprising several mice, each of which has
 CC a mutation in a different GPCR gene of the invention; and kits comprising
 CC probes which hybridize to GPCR polynucleotides of the invention. The
 CC invention further discloses variants of the GPCR polypeptides and vectors
 CC comprising a GPCR nucleic acid. The GPCR nucleic acids and proteins may
 CC be used in the diagnosis, treatment or prevention of a wide variety of
 CC diseases including neurological disorders (e.g., Alzheimer's disease,
 CC depression, diabetic neuropathy, Parkinson's disease or schizophrenia);
 CC disorders of the adrenal gland; disorders of the colon or intestine
 CC (e.g., Crohn's disease, diarrhoea, food poisoning or irritable bowel
 CC syndrome); cardiovascular disorders (e.g., angina, cardiac arrhythmia or
 CC myocardial infarction); muscular disorders; blood disorders (e.g.,
 CC anaemia or leukaemia); immune disorders (e.g., autoimmune disorders or
 CC AIDS); bone and joint disorders (e.g., osteoarthritis, rheumatoid
 CC arthritis, gout or osteoporosis); metabolic or nutritive disorders (e.g.,
 CC obesity, enzyme deficiency-related diseases or vitamin deficiency-related
 CC diseases); and disorders of the kidney, liver, lung, breast, ovary,
 CC uterus, prostate, testis, skin, stomach, pancreas, spleen, thymus and
 CC thyroid (e.g., cancers). The present sequence represents a GPCR-encoding
 CC nucleic acid of the invention. Note: The full sequence data for this
 CC patent did not form part of the printed specification; those sequences
 CC not shown were obtained in electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 1419 BP; 322 A; 409 C; 354 G; 334 T; 0 U; 0 Other;
SQ
Query Match 95.2%; Score 1256.2; DB 12; Length 1419;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1261; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
QY 52 ACTGACCTCTCTGGAAGTCCCTTCCAAAGAGATGATCGCGGAGACACCCCGACTA 111
DB 151 ACTTCTTTAGGGGAAGTCCCTTCCAAAGAGATGATCGCGGAGACACCCCGACTA 210
QY 112 GTCCGACGACGACGATGACATTAAGATTTTACAAAGCTCTCTGCTCTTCAAG 171
DB 211 GTCCGACGACGACGATGACATTAAGATTTTACAAAGCTCTCTGCTCTTCAAG 270
QY 172 GAGATGAGAGAGAAATCCAGTGTGGGAGAACTTATGAGACATAGAGTTCATGTC 231
DB 271 GAGATGAGAGAGAAATCCAGTGTGGGAGAACTTATGAGACATAGAGTTCATGTC 330
QY 232 CTGAACCCGACGACGATGACATTAAGATTTTACAAAGCTCTCTGCTCTTCAAG 291
DB 331 CTGAACCCGACGACGATGACATTAAGATTTTACAAAGCTCTCTGCTCTTCAAG 390
QY 292 GTCTGAGAGAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 351
DB 391 GTCTGAGAGAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 450
QY 352 CCTTCTCTCACTTCACTGAGGAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGG 411
DB 451 CCTTCTCTCACTTCACTGAGGAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGG 510
QY 412 GTCTGAGAGAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 471
DB 511 GTCTGAGAGAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 570
QY 472 TTCAAACTGGGTGGGTGCAAGGCTCTTCACTGCTGCTGCTGCTGCTGCTGCTG 531
DB 571 TTCAAACTGGGTGGGTGCAAGGCTCTTCACTGCTGCTGCTGCTGCTGCTGCTG 630
QY 532 GCCATCGACAGTATCATTCATTCACAGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 591
DB 631 GCCATCGACAGTATCATTCATTCACAGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 690
QY 592 CCCAAGGCGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 651
DB 691 CCCAAGGCGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 750
QY 652 CCTCTCTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 711
DB 751 CCTCTCTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 810
QY 712 ATTGATGAACCTTACCTGATGTTCTGATCGGGGTGACCAAGCTGCTGCTGCTG 771
DB 811 ATTGATGAACCTTACCTGATGTTCTGATCGGGGTGACCAAGCTGCTGCTGCTG 870
QY 772 GTGATGAGTACATGATATTTCTGGAAGGCTCACAGGCTGCTGCTGCTGCTGCTG 831
DB 871 GTGATGAGTACATGATATTTCTGGAAGGCTCACAGGCTGCTGCTGCTGCTGCTG 930
QY 832 CGTGGACCCGAGAGAGATCATTCACAGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 891
DB 931 CGTGGACCCGAGAGAGATCATTCACAGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 990
QY 892 CGGCGACGACGACGCTGATGACATTAAGATTTTACAAAGCTCTCTGCTCTTCAAG 951
DB 991 CGGCGACGACGACGCTGATGACATTAAGATTTTACAAAGCTCTCTGCTCTTCAAG 1050
QY 952 GTGTTGATCATCTGCTGGGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1011
DB 1051 GTGTTGATCATCTGCTGGGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1110
QY 1012 ATGAACAAGCTCATTAAGACGGTGTGTTGACATTCAGATGCTGCTGCTGCTGCTG 1071

DB 1111 ATGAACAAGCTCATTAAGACGGTGTGTTGACATTCAGATGCTGCTGCTGCTGCTG 1170
QY 1072 ACCGTGAACCCGATCATTCATTCACAGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1131
DB 1171 ACCGTGAACCCGATCATTCATTCACAGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1230
QY 1132 ATGTTTCCCTCTTGAAGGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1191
DB 1231 ATGTTTCCCTCTTGAAGGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1290
QY 1192 TCCCTGCAACAAACGCAACATGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1251
DB 1291 TCCCTGCAACAAACGCAACATGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1350
QY 1252 AAGACGACGCTCAAGTTCGCAAGGATTCATGCTGCTGCTGCTGCTGCTGCTGCTG 1311
DB 1351 AAGACGACGCTCAAGTTCGCAAGGATTCATGCTGCTGCTGCTGCTGCTGCTGCTG 1410
QY 1312 GCTCTGTGA 1320
DB 1411 GCTCTGTGA 1419
RESULT 14
AB235604
ID AB235604 standard; cDNA; 2135 BP.
XX
AC AB235604;
XX
DT 05-FEB-2003 (first entry)
XX
DE Human gene expression profile polynucleotide seq ID NO 715.
XX
KW Human, artery; endothelium; umbilical; vein; aorta; pulmonary artery;
KW bronchial epithelium; prostate; muscle; lung fibroblast; osteoblast;
KW tumour; microarray; genome mapping; antibiotic; antiviral; antifungal;
KW gene expression; gene; ss.
XX
OS Homo sapiens.
XX
PN WO200274979-A2.
XX
PD 26-SEP-2002.
XX
PF 20-MAR-2002; 2002WO-US008456.
XX
PR 20-MAR-2001; 2001US-0276947P.
XX
PA (ORTH) ORTHO CLINICAL DIAGNOSTICS INC.
XX
PI Wan J, Wang Y;
XX
DR WPI, 2002-740862/80.
XX
PT New gene expression profile generated from primary, endothelial,
PT epithelial, and muscle cell types, useful for identifying disease
PT pathologies involving alterations of gene expression, e.g. cancer.
XX
PS Example 3; Page 818-819; 850bp; English.
XX
The invention relates to a gene expression profile comprising one or more
genes (AB234889-AB235692) and generated from a cell type. The cell type
is a coronary artery endothelium, umbilical artery or vein endothelium,
aortic endothelium, dermal microvascular endothelium, pulmonary artery
endothelium, myometrium microvascular endothelium, keratinocyte
endothelium, bronchial epithelium, mammary epithelium, prostate
epithelium, renal cortical epithelium, renal proximal tubule epithelium,
small airway epithelium, renal epithelium, umbilical artery smooth
muscle, neonatal dermal fibroblast, pulmonary artery smooth muscle,
dermal fibroblast, neural progenitor cells, skeletal muscle, astrocytes,
aortic smooth muscle, mesangial cells, coronary artery smooth muscle,
bronchial smooth muscle, uterine smooth muscle, lung fibroblast,
osteoblasts or prostate stromal cell. The gene expression profile is used

for determining the level of RNA expression for a sample, determining the phenotype of a cell, and distinguishing cell types. The gene or a protein expression profile is useful in identifying disease pathologies involving alterations of gene expression. The assessment of expression profiles may provide meaningful information with respect to tumour type and stage, treatment method, and prognosis. The gene or protein expression profile may also be used for creating microarrays. The microarray is useful for genetic and physical mapping of genomes, DNA sequencing, genetic or medical diagnosis, genotyping of organisms, confirming cell or tissue identifications and in identifying promising antibiotics, antiviral or antifungal agents

Sequence 2135 BP; 537 A; 537 C; 482 G; 579 T; 0 U; 0 Other;

Query Match 95.2%; Score 1256.2; DB 6; Length 2135;

Best Local Similarity 99.4%; Pred. No. 0;

Matches 1261; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

```

OY 52 ACTGACCTCTGGGAGTCCCTTCCAGAGAGATGATCGGAGAGCAACCCGAGCTA 111
DB 242 ACTTCTTTAGGGAGAGTCCCTTCCAGAGAGATGATCGGAGAGCAACCCGAGCTA 301
OY 112 GTCCAGCAGACCAAGTGAACATTAAGAAATTTTCAACAACTCTCTGCTCTTCAAG 171
DB 302 GTCCAGCAGACCAAGTGAACATTAAGAAATTTTCAACAACTCTCTGCTCTTCAAG 361
OY 172 GAGAAATGAGAGAAATTCAGTGTGGGAGAACTTCATGACATGAGTGTTCATGTGTC 231
DB 362 GAGAAATGAGAGAAATTCAGTGTGGGAGAACTTCATGACATGAGTGTTCATGTGTC 421
OY 232 CTGAACCCGAGCAGACCTGGCCATTCAGTCTGCTCCCTCAGCCCTGGGCACTTCAAG 291
DB 422 CTGAACCCGAGCAGACCTGGCCATTCAGTCTGCTCCCTCAGCCCTGGGCACTTCAAG 481
OY 292 GTCTGAGAGAACTCTGAGTGTGCTGATCTCTCACTCCGAGCCTCCGCTGAGAG 351
DB 482 GTCTGAGAGAACTCTGAGTGTGCTGATCTCTCACTCCGAGCCTCCGCTGAGAG 541
OY 352 CCTTCTTACCACTTCAATGGGAGCCTGGGAGAGACTCTTGGGAGAGTCAATTTT 411
DB 542 CCTTCTTACCACTTCAATGGGAGCCTGGGAGAGACTCTTGGGAGAGTCAATTTT 601
OY 412 GTCTACAGCTTCAATGATCTTCCAGTGTTCACACGCAAAATAGGCGCAAGTGTTCG 471
DB 602 GTCTACAGCTTCAATGATCTTCCAGTGTTCACACGCAAAATAGGCGCAAGTGTTCG 661
OY 472 TTCAAACTGGGTGGGTCAAGGCTCTTCACTGCTCTGCTGGGCAAGCTGTTCCTCA 531
DB 662 TTCAAACTGGGTGGGTCAAGGCTCTTCACTGCTCTGCTGGGCAAGCTGTTCCTCA 721
OY 532 GCCATCGACAGGTATATATCCATTCACAGGCGCCCTGAGCTATAAGAGATTGTCCACAG 591
DB 722 GCCATCGACAGGTATATATCCATTCACAGGCGCCCTGAGCTATAAGAGATTGTCCACAG 781
OY 592 CCCAAGCCGTTGGTACGTTTTCCTGATGTGAACCATGACCATTTGATCGCCGTGCTG 651
DB 782 CCCAAGCCGTTGGTACGTTTTCCTGATGTGAACCATGACCATTTGATCGCCGTGCTG 841
OY 652 CCTCTCTGGGCTGGAATCGAGAAACTGCAATCTGTTGCTCAGACATTTTCCCAAC 711
DB 842 CCTCTCTGGGCTGGAATCGAGAAACTGCAATCTGTTGCTCAGACATTTTCCCAAC 901
OY 712 ATTGAATGAACCTATCTGATGTTCGGAATCGGGGTCAACAGGTACTGTTTCTGTTCAATC 771
DB 902 ATTGAATGAACCTATCTGATGTTCGGAATCGGGGTCAACAGGTACTGTTTCTGTTCAATC 961
OY 772 GTGTATGCGTACATATATTTCTCTGGAAGGCTCAAGCAGCCGCTCCGATGATTGAG 831
DB 962 GTGTATGCGTACATATATTTCTCTGGAAGGCTCAAGCAGCCGCTCCGATGATTGAG 1021
OY 832 CGTGACACCCAGAGAGATCATCATTCACACGCTGTGAGAGTGGAGGTACAGGTGACC 891
DB 1022 CGTGACACCCAGAGAGATCATCATTCACACGCTGTGAGAGTGGAGGTACAGGTGACC 1081

```

```

OY 892 CGGCCAGACCAAGCCCGCATGAGCATTTAGTTCACCAAGACCTGTCTGTGATCTGTG 951
DB 1082 CGGCCAGACCAAGCCCGCATGAGCATTTAGTTCACCAAGACCTGTCTGTGATCTGTG 1141
OY 952 GTGTGATCATCTGTGGGCGCTCTGTGCAATCAATGATGATGATGATGATGATGATG 1011
DB 1142 GTGTGATCATCTGTGGGCGCTCTGTGCAATCAATGATGATGATGATGATGATGATG 1201
OY 1012 ATGAACAACTCATTTAAGACGCTGTGTCATTTGTCAGATATGCTCTGCTCTGAACTCC 1071
DB 1202 ATGAACAACTCATTTAAGACGCTGTGTCATTTGTCAGATATGCTCTGCTCTGAACTCC 1261
OY 1072 ACCGTAACCCCATCATATATGCTCTGAGAGTAAAGACCTGAGACAGCTTTCCGAGC 1131
DB 1262 ACCGTAACCCCATCATATATGCTCTGAGAGTAAAGACCTGAGACAGCTTTCCGAGC 1321
OY 1132 ATGTTTCCCTCTTGTGAAGGCACTGCGAGCCTCTGTGATTAACAGATGGGGAACTCGAC 1191
DB 1322 ATGTTTCCCTCTTGTGAAGGCACTGCGAGCCTCTGTGATTAACAGATGGGGAACTCGAC 1381
OY 1192 TGCTGCACAAAACGCAAAATGCAAGCCAGTGTTCACAGAGCGCGCAAAAGCTGCAATC 1251
DB 1382 TGCTGCACAAAACGCAAAATGCAAGCCAGTGTTCACAGAGCGCGCAAAAGCTGCAATC 1441
OY 1252 AAGAGCAGGTCAGATTTGCAAGGTAAACATGCTGTGTCACAGACAGCTGTGCGGAG 1311
DB 1442 AAGAGCAGGTCAGATTTGCAAGGTAAACATGCTGTGTCACAGACAGCTGTGCGGAG 1501
OY 1312 GCTCTGTGA 1320
DB 1502 GCTCTGTGA 1510

```

RESULT 15
ACAS6852
ID ACAS6852 standard; cDNA; 2135 BP.

ACAS6852;

06-JUN-2003 (first entry)

Human signalling pathway polynucleotide probe SEQ ID NO 1450.

Human; probe: ss; array element; Parkinson's disease; signalling pathway population; cancer; adenocarcinoma; leukemia; immunopathy; AIDS; asthma; neuropathy; Alzheimer's disease; microarray.

Homo sapiens.

US6500938-B1.

31-DEC-2002.

30-JAN-1998; 98US-00016434.

30-JAN-1998; 98US-00016434.

(INCY-) INCYTE GENOMICS INC.

Au-Young J, Seilhamer JJ;

WPI; 2003-352189/33.

Combination of polynucleotide probes, useful as array elements in a PT microarray for monitoring the expression of a number of target polynucleotides.

Claim 1; SEQ ID NO 1450; 65pp; English.

The invention relates to a combination which, comprises a number of CC polynucleotide probes comprising a sequence selected from one of the 1490 CC sequences mentioned in the specification. The combination is useful as an

CC array element in a microarray for monitoring the expression of a number
CC of target polymucleotides. The microarray is particularly useful in the
CC diagnosis and treatment of cancer and immunopathology and neuropathology.
CC The microarray is useful in diagnostics and treatment regimens, drug
CC discovery and development, toxicological and carcinogenicity studies,
CC forensics and pharmacogenomics. The microarray is also useful for
CC monitoring progression of diseases and for developing sophisticated
CC profiles for the effects of currently available therapeutic drugs. The
CC combination is also useful for purifying a subpopulation of mRNAs, cDNAs
CC and genomic fragments and in research and diagnostic applications. The
CC array can detect changes in expression in a large number of genes coding
CC for different signaling pathway populations which can be used to diagnose
CC various diseases including cancer e.g. adenocarcinoma and leukemia,
CC immunopathies e.g. AIDS and asthma, neuropathies e.g. Alzheimer's disease
CC and Parkinson's disease. The present sequence represents a polymucleotide
CC probe of the invention. Note: The sequence data for this patent did not
CC form part of the printed specification but was obtained in electronic
CC format directly from USPRO at
CC begdata.uspto.gov/sequence.html?docID=06500938B1
CC
CC
CC

Sequence 2135 BP; 537 A; 537 C; 482 G; 579 T; 0 U; 0 Other;

Query Match 95.2%; Score 1256.2; DB 10; Length 2135;

Best Local Similarity 99.4%; Pred. No. 0;

Matches 1261; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

```
QY 52 ACTGACCTCTGGGAGTCCCTTCCAGAGAAAGTATGTCGGGAGACAAACCCCAAGCTA 111
DB 242 ACTTCCTTTAGGGAGATCCCTTCCAGAGAAAGTATGTCGGGAGACAAACCCCAAGCTA 301
QY 112 GTCCAGAGACAGAGTGAACATTAACAGAAATTTTCAACAAAGTCTCTCGTCCCTTCAAG 171
DB 302 GTCCAGAGACAGAGTGAACATTAACAGAAATTTTCAACAAAGTCTCTCGTCCCTTCAAG 361
QY 172 GAGAAATGAGAGAACATCCAGTGTGGGAGAACTTCATGACATAGAGTGTTCATGTGC 231
DB 362 GAGAAATGAGAGAACATCCAGTGTGGGAGAACTTCATGACATAGAGTGTTCATGTGC 421
QY 232 CTGAAACCCCAAGCAGACAGTGGCCATTTGCAATGTCCTCTCAACGCTGGGCACTTCAAG 291
DB 422 CTGAAACCCCAAGCAGACAGTGGCCATTTGCAATGTCCTCTCAACGCTGGGCACTTCAAG 481
QY 292 GTCCAGAGAACCTCTGGTGTGTCGCTATCCATCCAGAGAGCTCCGCGAGAGG 351
DB 482 GTCCAGAGAACCTCTGGTGTGTCGCTATCCATCCAGAGAGCTCCGCGAGAGG 541
QY 352 CTTTCTCAACAATTGATCGGCAAGCTGGCGGTGGAGACCTCTGGGAGTGTCAATTTT 411
DB 542 CTTTCTCAACAATTGATCGGCAAGCTGGCGGTGGAGACCTCTGGGAGTGTCAATTTT 601
QY 412 GTCTACAGCTTCAATTCATTCAGTGTTCACCGCAAGATAGCCGCAACGTGTTCTG 471
DB 602 GTCTACAGCTTCAATTCATTCAGTGTTCACCGCAAGATAGCCGCAACGTGTTCTG 661
QY 472 TTCAAACTGGGGGTGAGCGGCTCTTCACTGCTCGGGAGAGCTGTTCTTCA 531
DB 662 TTCAAACTGGGGGTGAGCGGCTCTTCACTGCTCGGGAGAGCTGTTCTTCA 721
QY 532 GCCATCGACAGGTACATATTCATTCACAGGCCCCCTGGCTATAGAGATTGTCAACAG 591
DB 722 GCCATCGACAGGTACATATTCATTCACAGGCCCCCTGGCTATAGAGATTGTCAACAG 781
QY 592 CCCAAGGCGGTGTAGCGTTTGGCTGATGTGACCAATAGCCATTGTGATGCGCGTCTG 651
DB 782 CCCAAGGCGGTGTAGCGTTTGGCTGATGTGACCAATAGCCATTGTGATGCGCGTCTG 841
QY 652 CCTCTCTGGGCTGGAATGCGAGAAACGCAATCGTTTGTCTGACATTTTCCACAC 711
DB 842 CCTCTCTGGGCTGGAATGCGAGAAACGCAATCGTTTGTCTGACATTTTCCACAC 901
QY 712 ATTGATGAACCTTACCTGATGTTCTGATCGGGGTCAACAGGCTATCTGTTCAATC 771
DB 902 ATTGATGAACCTTACCTGATGTTCTGATCGGGGTCAACAGGCTATCTGTTCAATC 961
```

```
QY 772 GTGATGCTGATGATGATATTTCTTGAAGGCTCACAGCCAGCCCTCCGATGATTGAG 831
DB 962 GTGATGCTGATGATGATATTTCTTGAAGGCTCACAGCCAGCCCTCCGATGATTGAG 1021
QY 832 CGGAGACCCAGAAAGCATCATATCCACAGTCTGAGATGGGAAAGGTACAGGTGACC 891
DB 1022 CGTGGACCCAGAAAGCATCATATCCACAGTCTGAGATGGGAAAGGTACAGGTGACC 1081
QY 892 CGGAGACCCAGAAAGCCGATGACATTAAGTATAGCCAAAGCCCTGCTCTGATCTGTG 951
DB 1082 CGGAGACCCAGAAAGCCGATGACATTAAGTATAGCCAAAGCCCTGCTCTGATCTGTG 1141
QY 952 GTGTTGATATCTGCTGGGCGCTTCTGCTGCAATCATATGATGATGATGATGATG 1011
DB 1142 GTGTTGATATCTGCTGGGCGCTTCTGCTGCAATCATATGATGATGATGATGATG 1201
QY 1012 ATGAACAAGCTCATTAAGACGGTGTGATTCAGATTCAGATTCAGATTCAGATTCAG 1071
DB 1202 ATGAACAAGCTCATTAAGACGGTGTGATTCAGATTCAGATTCAGATTCAGATTCAG 1261
QY 1072 ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAAGACTTGCACAGCTTTCCGAGC 1131
DB 1262 ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAAGACTTGCACAGCTTTCCGAGC 1321
QY 1132 ATGTTTCCCTCTTGTGAAGGCACTGCGCAAGCTCTGATACATACGATGGGGATCTG 1191
DB 1322 ATGTTTCCCTCTTGTGAAGGCACTGCGCAAGCTCTGATACATACGATGGGGATCTG 1381
QY 1192 TGCCGTGCAAAACAGCAAAACAAATGACAGTGTTCACAGGCGCGCAAAAGCTGCAATC 1251
DB 1382 TGCCGTGCAAAACAGCAAAACAAATGACAGTGTTCACAGGCGCGCAAAAGCTGCAATC 1441
QY 1252 AAGAGCAAGCTCAAGATTGCAAGGTAAACATGTCTGTGTCCACAGACAGCTCTGCGAG 1311
DB 1442 AAGAGCAAGCTCAAGATTGCAAGGTAAACATGTCTGTGTCCACAGACAGCTCTGCGAG 1501
QY 1312 GCTCTGTGA 1320
DB 1502 GCTCTGTGA 1510
```

Search completed: June 16, 2006, 23:47:30
J00 Time : 842 secs

THIS PAGE BLANK (USPTO)

Query Match	95.3%;	Score 1257.8;	DB 14;	Length 1419;
Best Local Similarity	99.4%;	Pred. No. 0;		
Matches 1262;	Conservative 0;	Mismatches 7;	Indels 0;	Gaps 0;
Oy	52	ACTGACCTCTGGGAGTCCCTTCCAGAGAAAGATGATCTGGGAGAGACAACCCCAAGCTA	111	
Db	151	ACTTCTTTAGGGAGATCCCTTCCAGAGAAAGATGATCTGGGAGAGACAACCCCAAGCTA	210	
Oy	112	GTCCAGAGACCAAGGTGAACATTACAGAAATTTTACAACAGTCTCTCTGCTTCAAG	171	
Db	211	GTCCAGAGACCAAGGTGAACATTACAGAAATTTTACAACAGTCTCTCTGCTTCAAG	270	
Oy	172	GAGAAATGAGAGAAACATCAAGTGTGGGAGAACTTCAAGACATAGAGTGTTCATGATC	231	
Db	271	GAGAAATGAGAGAAACATCAAGTGTGGGAGAACTTCAAGACATAGAGTGTTCATGATC	330	
Oy	232	CTGAACCCCAAGCAGACCTGGCCATTCAGTCTGCTTCAAGCTGGGAGCTTCAAG	291	
Db	331	CTGAACCCCAAGCAGACCTGGCCATTCAGTCTGCTTCAAGCTGGGAGCTTCAAG	390	
Oy	292	GTCTGAGAACTCTGAGTGTGCTGATCTCTTCACTCCGCAAGCTCCGCTGCAAG	351	
Db	391	GTCTGAGAACTCTGAGTGTGCTGATCTCTTCACTCCGCAAGCTCCGCTGCAAG	450	
Oy	352	CCTTCTCACTTATGATGCGGAGCTGGGCGTGGGAGACCTCTGGGAGTGTCAATTTT	411	
Db	451	CCTTCTCACTTATGATGCGGAGCTGGGCGTGGGAGACCTCTGGGAGTGTCAATTTT	510	
Oy	412	GTCTACAGCTTATGATCTTCCACGCTGTTCACCGCAAGATAGCCGCAAGCTGTTCG	471	
Db	511	GTCTACAGCTTATGATCTTCCACGCTGTTCACCGCAAGATAGCCGCAAGCTGTTCG	570	
Oy	472	TTCAACATGAGTGGGCTCAAGGCTCTTCACTGCTCCGTGGGAGCTGTTCCTACA	531	
Db	571	TTCAACATGAGTGGGCTCAAGGCTCTTCACTGCTCCGTGGGAGCTGTTCCTACA	630	
Oy	532	GCCATGACAGGTATATATCCATTCACAGGCCCCCTGATTAAGAGATTGTCAACAG	591	
Db	631	GCCATGACAGGTATATATCCATTCACAGGCCCCCTGATTAAGAGATTGTCAACAG	690	
Oy	592	CCCAAGGCGTGTAGCGTTTTCCTGATGTGACCATATGATGATTCGCGTGTCTG	651	
Db	691	CCCAAGGCGTGTGTGTGGCTTTTGCTGATGTGACCATATGATGATTCGCGTGTCTG	750	
Oy	652	CCTCTCTGCTGAGTCTGCAAGAACTGCAATCTGTTGCTCAGACATTTTCCACAC	711	
Db	751	CCTCTCTGCTGAGTCTGCAAGAACTGCAATCTGTTGCTCAGACATTTTCCACAC	810	
Oy	712	ATTGATGAACCTACCTGATGTTCTGATCGGGGTCAACAGGATCTGCTCTGTTCAATC	771	
Db	811	ATTGATGAACCTACCTGATGTTCTGATCGGGGTCAACAGGATCTGCTCTGTTCAATC	870	
Oy	772	GTGTATGCTATGATATATATCTCTGGAAGGCTCAACAGCCGCTCCGATGATTCAG	831	
Db	871	GTGTATGCTATGATATATATCTCTGGAAGGCTCAACAGCCGCTCCGATGATTCAG	930	
Oy	832	CGTGGACCCAGAAAGACATCATCTCAACAGTCTGAGATGGGAGGTAACAGGTGACC	891	
Db	931	CGTGGACCCAGAAAGACATCATCTCAACAGTCTGAGATGGGAGGTAACAGGTGACC	990	
Oy	892	CGGCGACCAAGCCCGCATGTGACATATAGGTAACCAAGCTGCTCTGATCCGAGT	951	
Db	991	CGGCGACCAAGCCCGCATGTGACATATAGGTAACCAAGCTGCTCTGATCCGAGT	1050	
Oy	952	GTGTGATCATCTGCTGGGCGCTCTGCTTGCATCATGATGATGATGATCTTGGGAG	1011	
Db	1051	GTGTGATCATCTGCTGGGCGCTCTGCTTGCATCATGATGATGATGATCTTGGGAG	1110	
Oy	1012	ATGAACAGCTCATTAAGACGCTGTTGATTTCTGAGATGCTCTGCTGCTGAATCC	1071	
Db	1111	ATGAACAGCTCATTAAGACGCTGTTGATTTCTGAGATGCTCTGCTGCTGAATCC	1170	
Oy	1072	ACCGTGAACCCCATCATATGCTCTGAGGAGTAAGAACCTGGAACAGCTTCCGAGAC	1131	

Db	1171	ACCGTGAACCCCATCATATGCTCTGAGGAGTAAGAACCTGGAACAGCTTCCGAGAC	1230	
Oy	1132	ATGTTTCCCTCTTGTGAAGGCACTGCGAGCTCTTGATTAACAGATGGGGAGCTCGAC	1191	
Db	1231	ATGTTTCCCTCTTGTGAAGGCACTGCGAGCTCTTGATTAACAGATGGGGAGCTCGAC	1290	
Oy	1192	TGCTGCAACAAACGCAACATGACGCGAGTGTTCACAGGGCGGAGAAAGCTGCATC	1251	
Db	1291	TGCTGCAACAAACGCAACATGACGCGAGTGTTCACAGGGCGGAGAAAGCTGCATC	1350	
Oy	1252	AAGACAGGTCAAGATTGCAAGGTAAACATGCTGTGTTCACAGACACGCTGCGAG	1311	
Db	1351	AAGACAGGTCAAGATTGCAAGGTAAACATGCTGTGTTCACAGACACGCTGCGAG	1410	
Oy	1312	GCTCTGTGA 1320		
Db	1411	GCTCTGTGA 1419		
RESULT 2				
AY415604				
LOCUS				
DEFINITION				
Mus musculus CNR1 gene, VIRUTAL TRANSCRIPT, partial sequence,				
AY415604.1 GI:39771563				
ACCESSION				
VERSION				
KEYWORDS				
SOURCE				
ORGANISM				
Mus musculus (house mouse)				
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;				
Sciurognathi; Muridae; Muridae; Murinae; Mus.				
REFERENCE				
AUTHORS				
1 (bases 1 to 1422)				
Clark, A.G., Glanowski, S., Nielson, R., Thomas, P., Kejarival, A.,				
Todd, M.A., Tenenbaum, D.M., Clivello, D.R., Lu, F., Murphy, B.,				
Fertiera, S., Wang, G., Zheng, X.H., White, T.J., Shinsky, J.J.,				
Adams, M.D. and Cargill, M.				
TITLE				
Inferring nonneutral evolution from human-chimp-mouse orthologous				
gene trios				
JOURNAL				
Science 302 (5652), 1960-1963 (2003)				
PUBMED				
14671302				
REFERENCE				
AUTHORS				
2 (bases 1 to 1422)				
Clark, A.G., Glanowski, S., Nielson, R., Thomas, P., Kejarival, A.,				
Todd, M.A., Tenenbaum, D.M., Clivello, D.R., Lu, F., Murphy, B.,				
Fertiera, S., Wang, G., Zheng, X.H., White, T.J., Shinsky, J.J.,				
Adams, M.D. and Cargill, M.				
TITLE				
Direct Submission				
JOURNAL				
Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,				
Rockville, MD 20850, USA				
COMMENT				
This sequence was made by sequencing genomic exons and ordering				
them based on alignment.				
FEATURES				
source				
1..1422				
/organism="Mus musculus"				
/mol_type="Genomic DNA"				
/db_xref="taxon:10090"				
<1..>1422				
/gene="CNR1"				
/locus_tag="HMC5612"				
ORIGIN				
Query Match				
Best Local Similarity 79.4%; Score 1048; DB 14; Length 1422;				
Matches 1139; Conservative 0; Mismatches 130; Indels 3; Gaps 1;				
Oy	52	ACTGACCTCTGGGAGTCCCTTCCAGAGAAAGATGATCTGGGAGAGACAACCCCAAGCTA	111	
Db	151	ACTTCTTTAGGGAGATCCCTTCCAGAGAAAGATGATCTGGGAGAGACAACCCCAAGCTA	210	
Oy	112	GTCCAGAC--AGACCAAGTGAACATTACAGAAATTTTACAACAGTCTCTGCTTCAAG	168	
Db	211	GTCCAGAGAGAGACAACCAACATTACAGAAATTTTACAACAGTCTCTGCTTCAAG	270	

QY	169	AAGGAGAAATGAGAGAAACTTCAATGTGGGAGAACTTCAATGACATTAAGTGTTCATG	228
Db	271	AAGGAGAAAGAGAGAAACAATCCAATGTGGGAGAAATTTATGACATGAGATGTCTTCATG	330
QY	229	GTCCTGAACCCAGGACGAGCTGGGCAATTGACAGTCTGTGCTCACTGCGGCACTTTC	288
Db	331	ATTCTGAATCCAGCCAGCAGCTGGGCAATCGCTGTCTGTCTCACTGCGGCACTTTC	390
QY	289	ACGGTCTGGAGAACTCTCTGGTGTGTGCTGATCTTCACTCCGCAAGCTTCGGCTGC	348
Db	391	ACGGTCTGGAGAACTCTCTGGTGTGTGATGTGATCTTCACTCCGCAAGCTTCGATGC	450
QY	349	AGGCTTCCTACCACTTCAATGGGACCTGGGGGTGGAGAACTCTGGGAGGTTCATT	408
Db	451	AGGCTTCCTACCACTTCAATGGGACCTGGGGGTGGAGAACTCTGGGAGGTTCATT	510
QY	409	TTTGTCTACAGCTTCATTGACTTCCAGCTTTCACCCGAAAGATAGCCGCAACGTGTT	468
Db	511	TTTGTCTACAGCTTTGTGTGACTTCCAGCTTTCACCCGAAAGATAGTGTCCCAATGTGTT	570
QY	469	CTGTTCAAACTGGGTGGGGTCAAGGCTTCTTCACTGCTCCGTGGGCAAGCTGTTCCTC	528
Db	571	CTGTTCAAACTGGGTGGGGTTCACCGCTCTTTCACAGCATCTGTGGGAGCCTGTTCCTC	630
QY	529	ACAGGCATGAGCAGGATCATATCCAAATTCACAGGCCCCGTGGGCTTAAGAGAGATTGTAC	588
Db	631	ACGGCCATGAGCAGGATCATATTCATTTCACAGGCCCCGTGGCTTAAGAGAGATGTTCAC	690
QY	589	AGGCCCAAGGCGGTGGTAGCGTTTGTGCTGATGTGGACATAGCCATTTGTATGCGCGTG	648
Db	691	AGGCCCAAGGCGGTAGTGCGCTTTTGTGCTTGAATGTGGACTATTGCATTAATTAATGCTGTG	750
QY	649	CTGCCCTCTCCGGGGCTGGAACTGGCAGAACTGGCAATCTGTTGCTCAACAATTTCCCA	708
Db	751	TTGCTCTCTCCGGGGCTGGAACTGGCAGAACTGGCAATCTGTTGCTCAACAATTTCCCA	810
QY	709	CACATTGATGAACCTTACCTCTGATGTTCTTGATTCGGGGTCAACGACGTACTGTCTGTTC	768
Db	811	CTCATTTGATGAACCTTACCTGATGTTCTTGATTCGGAGTCAACGATGTGCTGTGCTGTC	870
QY	769	ATCGTGTATGCGTACATGTATATTTCTCTGGAAGGCTCAACGCCACGCGCTCGCATGATT	828
Db	871	ATTGTGTATGCAATACATGTATATTTCTCTGGAAGGCTCAACGCCACGCAAGTGTGCAATGATC	930
QY	829	CAGCGTGGCACTCCAGAAAGCATATCATCCACAGCTCGAAGATGGGAAGGATCAGGTC	888
Db	931	CAGCGTGGAACTCCAGAAAGCATATCATCTCACTCAAGAAATGGCAAGGTGACAGGTG	990
QY	889	AACCGGGCAGAACAAAGCCCGACATGACATTTAGGTTAGCCAGAACCTGTGCTGTATCTG	948
Db	991	ACAAGCGCTGACCAAGCCCGACATGACATTTAGGCTGGCCAAACCTGTGTTGTGATCTG	1050
QY	949	GTGTGTGTGATCATATCTGCTGGGGCCCTCTGCTTGCATCATGTGTGTATGATGTCTTTGGG	1000
Db	1051	GTGTGTGTGATCATATCTGCTGGGGCCCTCTGCTTGCATCATGTGTGTATGATGTCTTTGGG	1110
QY	1009	AAGATGAACAAGCTCATTTAAGACGGGTGTTGATTCGACAGTATGCTCTGCCTGTGAAC	1060
Db	1111	AAGATGAACAAGCTTATCAAGACGGGTGTTGCTTCTGTAGTATGCTCTGCCTGTGAAC	1170
QY	1069	TCCACCGTGAACCCCATCATCTATGTCTTGAGAGAGTTAAGAACTTGGACACGCTTTCCGG	1120
Db	1171	TCCACCGTGAACCCCATCATCTATGTCTTGAGAGAGAAAGAACTTGGACATCTTTCCGC	1230
QY	1129	AGCATGTTTCCCTCTTGTGAAGAGCACTGGGACGCTCTGGAATTAACGATATGGGGGACTGG	1180
Db	1231	AGCATGTTTCCCTTCAATGTGAAGAGCACTGGGACGCTCTTGAATTAACGATATGGGGGACTGA	1290
QY	1189	GACTGCTTGACAAACAGGCAAAACAATGACGCAAGTTCACAGGGCCGACAGAAAGCTGC	1240
Db	1291	GACTGCTTGACAAACGCAATATTAACAAGCAGCATGATCAACAGGGCCGCGGAAAGCTGC	1350

Qy	1249	ATCAAGACACGGCTCAAAATTGCCAAGTAACCAATGTCGTGTCACAGACGCTGCC	1308
Db	1351	ATCAAGACACACGTGTAAAGATGCGCCAAAGGTACCAATGTCTGTGTCCACAGACACGCTGCC	1410
Qy	1309	GAGGCTCTGTGA	1320
Db	1411	GAGGCTCTGTGA	1422
RESULT 3			
ACCU39417			
LOCUS		1642 bp	mRNA
DEFINITION	Mus musculus 10 days neonate cortex cDNA, RIKEN full-length	linear	HTC 21-SEP-2005
ACCESSION	enriched library, clone:AB30055812	product:cannabinoid receptor 1	
VERSION	AK139417		
KEYWORDS	AK139417.1 GI:74228276		
SOURCE	HTC, CAP trapper.		
ORGANISM	Mus musculus (house mouse)		
REFERENCE			
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
TITLE	Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;		
JOURNAL	Schizontaphi; Muroidae; Muridae; Murinae; Mus.		
PUBMED			
REFERENCE			
AUTHORS	Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,		
TITLE	1 Carninci, P. and Hayashizaki, Y.		
JOURNAL	High-efficiency full-length cDNA cloning		
PUBMED	Meth. Enzymol. 303, 19-44 (1999)		
REFERENCE	10349636		
AUTHORS	2 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,		
TITLE	1 Itoh, M., Kono, H., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y.		
JOURNAL	Normalization and subtraction of cap-trapper-selected cDNAs to		
PUBMED	prepare full-length cDNA libraries for rapid discovery of new genes		
REFERENCE	Genome Res. 10 (10), 1617-1630 (2000)		
AUTHORS	11042159		
TITLE	3		
JOURNAL	Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P.,		
PUBMED	Kono, H., Akiyama, J., Nishi, K., Kitunai, T., Tashiro, H., Itoh, M.,		
REFERENCE	Sund, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A.,		
AUTHORS	Yamanoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kaishwagi, K.,		
TITLE	Fujiwaka, K., Inoue, K., Togawa, Y., Itawa, M., Ohara, E., Watahiki, M.,		
JOURNAL	Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J.,		
PUBMED	Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A., and Hayashizaki, Y.		
REFERENCE	RIKEN integrated sequence analysis (RISA) system--384-format		
AUTHORS	sequencing pipeline with 384 multipillar sequencer		
TITLE	Genome Res. 10 (11), 1757-1771 (2000)		
JOURNAL	11076861		
PUBMED	4		
REFERENCE			
AUTHORS	Kawai, J., Shingawa, A., Shibata, K., Yoshino, M., Itoh, M., Ishii, Y.,		
TITLE	Arkawa, T., Hara, A., Fukunishi, Y., Kono, H., Aichi, J., Fukuda, S.,		
JOURNAL	Aikawa, K., Itawa, M., Nishi, K., Kiyosawa, H., Kondo, S., Yamanaka, I.,		
PUBMED	Saito, T., Okazaki, Y., Gojodori, T., Bono, H., Kasukawa, T., Saito, R.,		
REFERENCE	Kadota, K., Matsuda, H., Ashburner, M., Batilov, S., Casavert, T.,		
AUTHORS	Fischmann, W., Gaesteland, T., Gissi, C., Kling, B., Koichwa, H.,		
TITLE	Kuehl, P., Lewis, S., Matsuo, Y., Nikaido, I., Peeble, G.,		
JOURNAL	Quackenbush, J., Schriml, L.M., Straub, F., Suzuki, R., Tomita, M.,		
PUBMED	Wagner, L., Washio, T., Sakai, K., Okido, T., Furuno, M., Aono, H.,		
REFERENCE	Baldarelli, R., Baren, G., Blake, U., Boffelli, D., Bojunga, N.,		
AUTHORS	Carninci, P., de Bonaldo, M.F., Brownstein, M.J., Ball, C.,		
TITLE	Plancher, C., Fujita, M., Gariboldi, M., Gustincich, S., Hill, D.,		
JOURNAL	Hofmann, M., Hume, D.A., Kamita, M., Lee, N.H., Lyons, P.,		
PUBMED	Marchionni, L., Mashima, J., Mazzarelli, J., Mombaerts, P., Nordone, P.,		
REFERENCE	Ring, B., Ringwald, M., Rodriguez, I., Sakamoto, N., Saeki, H.,		
AUTHORS	Sato, K., Schonbach, C., Seta, T., Shibata, Y., Storch, K.F., Suzuki, H.,		
TITLE	Toyokawa, K., Wang, K.H., Weitz, C., Whitaker, C., Wilming, L.,		
JOURNAL	Wynshaw-Boris, A., Yoshida, K., Hasegawa, Y., Kawai, H., Kohatsu, S.		
PUBMED	and Hayashizaki, Y.		
REFERENCE	RIKEN Genome Exploration Research Group Phase II Team and the		
AUTHORS	PANTOM Consortium		
TITLE	Functional annotation of a full-length mouse cDNA collection		
JOURNAL	Nature 409 (6821), 685-690 (2001)		
PUBMED	11217851		
REFERENCE	5		

AUTHORS	OKazaki,Y., Furuno,M., Kasukawa,T., Adachi,J., Bono,H., Kondo,S., Nikaido,I., Ooto,N., Saito,R., Suzuki,H., Yamataka,I., Kiyosawa,H., Yagi,K., Tomaru,Y., Hasegawa,Y., Nogami,A., Schonbach,C., Gojobori,T., Baldarelli,R., Hill,D.P., Bult,C., Hume,D.A., Quackenbush,J., Schrim,L.M., Kanapin,A., Matsuda,H., Batalov,S., Beisel,K.W., Blake,J.A., Brad,D., Brusic,V., Chochka,C., Corbani,L.E., Cousins,S., Dalla,E., Dragani,T.A., Fletcher,C.F., Forrest,A., Frazer,K.S., Gaasterland,T., Gariboldi,M., Gissi,C., Godzik,A., Gough,J., Grimmond,S., Guetlinich,S., Hirokawa,N., Jackson,I.J., Jarvis,E.D., Kanai,A., Kawaji,H., Kawasawa,Y., Kedzieriski,R.M., King,B.L., Konagaya,A., Kurochkin,I.V., Lee,Y., Lenhard,B., Lyons,P.A., Maglott,D.R., Maltais,L., Marchionni,L., McKenzie,L., Miki,H., Nagashima,T., Numata,K., Okido,T., Pavan,W.J., Perce G., Pesole,G., Petrovsky,N., Pillai,R., Pontius,J.U., Qi,D., Ramachandran,S., Ravasi,T., Reed,J.C., Reed,D.J., Reid,J., Ring,B.Z., Ringwald,M., Sadelain,A., Schneider,C., Sempile,C.A., Setou,M., Shimada,K., Sultana,R., Takenaka,Y., Taylor,M.S., Teasdale,R.D., Tomita,M., Verardo,R., Wagner,L., Wahlstedt,C., Wang,Y., Watanabe,Y., Wells,C., Wilming,L.G., Wynshaw-Boris,A., Yanagisawa,M., Yang,I., Yang,L., Yuan,Z., Zavolan,M., Zhu,Y., Zimmer,A., Carninci,P., Hayatsu,N., Hirozane-Kishikawa,T., Konno,H., Nakamura,M., Sakazume,N., Sato,K., Shiraki,T., Waki,K., Kawai,J., Alizawa,K., Arakawa,T., Fukuda,S., Hara,A., Hashizume,W., Imotani,K., Ishii,Y., Itoh,M., Kagawa,I., Miyazaki,A., Sakai,K., Sasaki,D., Shibata,K., Shinagawa,A., Yasunishi,A., Yoshino,M., Waterston,R., Lander,E.S., Rogers,J., Birney,E. and Hayashizaki,Y.
CONSRMT	PANTOM Consortium
TITLE	Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
JOURNAL	Nature 420 (6915), 563-573 (2002)
PUBMED	12466851
REFERENCE	
AUTHORS	

PUBMED	16141072
REFERENCE	
AUTHORS	Katayama,S., Tomaru,Y., Kasukawa,T., Waki,K., Nakanishi,M., Nakamura,M., Nishida,H., Yag,C.C., Suzuki,M., Kawai,J., Suzuki,H., Carninci,P., Hayashizaki,Y., Wells,C., Frith,M., Ravasi,T., Pang,K.C., Hallinan,J., Mattick,J., Hume,D.A., Lipovich,L., Batalov,S., Engstrom,P.G., Mizuno,Y., Faghihi,M.A., Sadelain,A., Chalk,A.M., Mottagui-Tabar,S., Liang,Z., Lenhard,B. and Wahlstedt,C.
CONSRMT	Riken Genome Exploration Research Group
TITLE	Antisense transcription in the mammalian transcriptome
JOURNAL	Science 309 (5740), 1564-1566 (2005)
PUBMED	16141073
REFERENCE	
AUTHORS	

TITLE	Direct Submission
JOURNAL	Submitted (30-MAR-2004) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa, 230-0045, Japan (E-mail:genome-res@gs.c.riken.jp, URL:http://genome.gsc.riken.jp/, Tel:81-45-503-9222, Fax:81-45-503-9216)
COMMENT	cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. Please visit our web site for further details. URL:http://genome.gsc.riken.jp/ URL:http://fantom.gsc.riken.jp/. location/Qualifiers
FEATURES	1..1642 location="Mus musculus" /organism="Mus musculus" /mol_type="mRNA" /strain="C57BL/6J" /db_xref="PANTOM:DB:A83005B12" /db_xref="taxon:10090" /clone="A83005B12" /tissue_type="cortex" /clone_11b="RIKEN full-length enriched mouse cDNA library" /dev_stage="10 days neonate" 198..1619 /note="unlabeled protein product; cannabinoid receptor 1 (brain) (MGD MG1:104615 GB NM_007726, evidence: BLASTN, 100%, match=1423) putative" /codon_start=1 /protein_id="BAE24003.1" /db_xref="GI:74228277" /translation="MKSTLDGLADTTRTITDILVYGSNDIOYEDIKGMASKLGYF PQKPLPSFRGSPPOEKTKADNPLYPADGTTTTRTKSLSPRENNITCGEN FMDECEWILNPSQALAVLSTLGTFTVENLIVCVLIHSRLRPSVHTGSL AVADLGSVIVPVSFVDFHVRKDSPPVFFKGGVATSTASVGSFFLADRYIS IHRLPAGRYIVTRPKAVAVAFCLMTWIAIVLPLDGNCKDLSVCSIDPLIDET LHPWIGTYSVLLTRPVAVAFVLMKASHAVRMIORGOKSIIITHSDGAVOTRPP QARDIRIAKTVVLIIVLTITCMKPLAIIMYVDGKNKTIKIVPFCSMCLINST VNPITVARSQDLHARFNSWSPSCBGTROPIDNSGSDCLHKANNTASVHRAAESC IKSTVTKAKVTMVSVDTSABAL"
CDS	
ORIGIN	Query Match 79.4%; Score 1048; DB 6; Length 1642; Beet Local Similarity 89.5%; Pred. No.2e-262; Matches 1139; Conservative 0; Mismatches 130; Indels 3; Gaps 1; 52 ACTGACCTCTCGGAGAGTCCCTCCAGAGAGATGATGCGGGAGACACCCCGAGCTA 111 348 ACTTCCTTCAGGGGATGATCCCTCCAGAGAGATGATGCGGGAGACACCTCCCGTTG 407


```
QY 112 GTCCAGC---AGACGAGGTGAACATTACAGATTATTACAGAAAGCTCTGCTGCTTC 168
Db 408 GTTCCAGCAGAGAGACAAACAAACATTACAGAGTTCTATACAGAGCTCTCTCATCTTC 467
QY 169 AAGAGATGAGAGAGAAACATCCAGTGTGGGAGAACTTCATGAGACATAGAGTTTCATG 228
Db 468 AAGAGAGACGAGAGACAAACATCCAGTGTGGGAGAAATTTATGAGACATGAGTGTTCATG 527
QY 229 GTTCCAGAACCCGAGCAGAGAGTGGGACATGAGTCTGTCTCTCCCTCAGCTGGGACCTTC 288
Db 528 ATTGGAATCCAGCAGAGAGCTGGGACATCGCTGTCTCTCTCCTCAGCTGGGACCTTC 587
QY 289 ACGGTCTGAGAGAACTCTGTGTGCTGTGCTCATCTTCACATCCCGCAGCCCGCTG 348
Db 588 ACGGTCTGAGAGAACTCTGTGTGCTGTGCTCATCTTCACATCCCGCAGCTTCGATTC 647
QY 349 AAGGCTTCTTACCATTCATCCGAGCCCTGGCGTGGCAGAACCTCTCTGGGAGTGTCAAT 408
Db 648 AAGGCTTCTTACCATTCATTCGAGCCCTGGCGTGGCAGATCTCTGGGAGTGTCAATC 707
QY 409 TTTGTCTACAGCTTCAATGATCTTCCACGCTGTCCACCGCAAGATAGCCGCAAGTGTTC 468
Db 708 TTTGTCTACAGCTTGTGATCTTCCACGCTGTCCACCGCAAGATAGTCCCATGTGTTC 767
QY 469 CTGTTCAAACTGGGTGGGCTCAAGGCTCTTCACTGCTCTGGTGGGAGCTGTCTTC 528
Db 768 CTGTTCAAACTGGGTGGGCTTACCGCTCTTCACTGCTCTGGTGGGAGCTGTCTTC 827
QY 529 AAGGCTTCTTACCATTCATCCGAGCCCTGGCGTGGCAGAACCTTCATAGAGATGTTCACC 588
Db 828 AAGGCTTCTTACCATTCATTCGAGCCCTGGCGTGGCAGATCTCTGGGAGTGTTCACC 887
QY 589 AAGGCTTCTTACCATTCATTCGAGCCCTGGCGTGGCAGAACCTTCATAGAGATGTTCACC 648
Db 888 AAGGCTTCTTACCATTCATTCGAGCCCTGGCGTGGCAGAACCTTCATAGAGATGTTCACC 947
QY 649 CTGCTCTCTGGGTGGGCTGAGAGAACTGCAAGCTGTGTTGCTGAGACATTTTCCCA 708
Db 948 TTTGCTCTCTGGGTGGGCTGAGAGAACTGCAAGCTGTGTTGCTGAGACATTTTCCCA 1007
QY 709 CACATTTGATGAACCTTACCTGATGTTCGATCGGGGTCAACGAGGTACTGCTCTGCTTC 768
Db 1008 CTGATTTGATGAACCTTACCTGATGTTCGATCGGGGTCAACGAGGTACTGCTCTGCTTC 1067
QY 769 ATCTGTATGCGTACATGTATATCTCTGGAAGGCTCAAGCCAGCCGCTCGCATGAT 828
Db 1068 ATCTGTATGCGTACATGTATATCTCTGGAAGGCTCAAGCCAGCCAGTTCGATGATC 1127
QY 829 CAGGCTGACCCGAGAGAGATCATCTCAACAGCTGTGAGAGTGGAGATGATCAAGTGTG 888
Db 1128 CAGGCTGACCCGAGAGAGATCATCTCAACAGCTGTGAGAGTGGAGATGATCAAGTGTG 1187
QY 889 ACCCGGACAGACCAAGCCGAGTGAATAGATTAGCCAGAACCTGCTGCTGATCTG 948
Db 1188 ACCCGGACAGACCAAGCCGAGTGAATAGATTAGCCAGAACCTGCTGCTGATCTG 1247
QY 949 GTGTGTGATCATCTGTGGGCTCTGTCTTGAATCATGTGTATGATGTCTTTGGG 1008
Db 1248 GTGTGTGATCATCTGTGGGCTCTGTCTTGAATCATGTGTATGATGTCTTTGGG 1307
QY 1009 AAGATGAACAAGCTCATTAAGACGCTGTTGATCTGCAATGATCTGCTCTGCTGAAC 1068
Db 1308 AAGATGAACAAGCTCATTAAGACGCTGTTGATCTGCAATGATCTGCTCTGCTGAAC 1367
QY 1069 TCCACCGTGAACCCCATCATCTATGCTCTGAGAGATGAAGACCTGAGACATGCTTCCGC 1128
Db 1368 TCCACCGTGAACCCCATCATCTATGCTCTGAGAGATGAAGACCTGAGACATGCTTCCGC 1427
QY 1129 AGCATGTTTCTCTTGTGAAGGCACTGCGAGCTCTGATATACAGATGAGGAGACTCG 1188
Db 1428 AGCATGTTTCTCTTGTGAAGGCACTGCGAGCTCTGATATACAGATGAGGAGACTCG 1487
```

```
QY 1189 GACTGCTGCAACAACGCAACAATGAGCAGAGTGTTCACAGAGGCGCAGAAAGCTGC 1248
Db 1488 GACTGCTGCAACAACGCAACAATGAGCAGAGTGTTCACAGAGGCGCAGAAAGCTGC 1547
QY 1249 ATCAAGAGCAGGTCAAGATTCGCAAGGTACATGTCTGTGTCAACAGACATCTGTC 1308
Db 1548 ATCAAGAGCAGGTCAAGATTCGCAAGGTACATGTCTGTGTCAACAGACATCTGTC 1607
QY 1309 GAGGCTCTGTGA 1320
Db 1608 GAGGCTCTGTGA 1619

RESULT 4
AY415603
LOCUS AY415603 821 bp DNA linear GSS 17-DEC-2003
DEFINITION Pan troglodytes CNR1 gene, VIRUAL TRANSCRIPT, partial sequence,
ACCESSION AY415603
VERSION AY415603.1 GI:3971562
KEYWORDS GSS.
SOURCE Pan troglodytes (chimpanzee)
ORGANISM Pan troglodytes
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Pan.
REFERENCE 1 (bases 1 to 821)
Clark, A.G., Gianowski, S., Nielson, R., Thomas, P., Kejarimal, A.,
Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B.,
Fertiera, S., Wang, G., Zheng, X.H., White, T.J., Shtinsky, J.J.,
Adams, M.D. and Cargill, M.
Inferring nonneutral evolution from human-chimp-mouse orthologous
gene trios
JOURNAL Science 302 (5652), 1960-1963 (2003)
PUBMED 14671302
REFERENCE 2 (bases 1 to 821)
Clark, A.G., Gianowski, S., Nielson, R., Thomas, P., Kejarimal, A.,
Todd, M.A., Tanenbaum, D.M., Civello, D.R., Lu, F., Murphy, B.,
Fertiera, S., Wang, G., Zheng, X.H., White, T.J., Shtinsky, J.J.,
Adams, M.D. and Cargill, M.
Direct Submission
JOURNAL Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
COMMENT This sequence was made by sequencing genomic exons and ordering
them based on alignment.
FEATURES
source
location/Qualifiers
1..821
/organism="Pan troglodytes"
/mol_type="genomic DNA"
/db_xref="taxon:9598"
<1..>821
/gene="CNR1"
/locus_tag="HCM5612"

ORIGIN
Query Match 60.9%; Score 804.2; DB 14; Length 821;
Best Local Similarity 98.2%; Pred. No. 9.4e-199;
Matches 806; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 182 AGAATATCAGATGAGGAGAACTTACAGACATAGATGTTTCAATGCTCCGAAACCCA 241
Db 1 AGAATATCAGATGAGGAGAACTTACAGACATAGATGTTTCAATGCTCCGAAACCCA 60
QY 242 GCCAGACAGCTGCAATTCAGTCTGTCTCTCAGCTGGGACCTTCAGAGTCTGTGAGA 301
Db 61 GCCAGACAGCTGCAATTCAGTCTGTCTCTCAGCTGGGACCTTCAGAGTCTGTGAGA 120
QY 302 ACTTCCTGTGCTGTGCTCATCTTCCATCTCCGAGCTTCGCTGAGGCTTCTTACC 361
Db 121 ACTTCCTGTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 180
QY 362 ACTTCATGAGAGCTGAGCTGAGAGAGCTTCCTGAGAGTGTCAATTTTGTCTACAGCT 421
```

```

Db      181  ACTCATGCGGAGCGCTGGCGGGTGCGAGACCTCTCTGGGAGTGTGTCATTTTGTCTACAGCT 240
Qy      422  TCATTGACTTCCAGCGTGTTCACCGCAAGATAGCCGCAAGTGTGTCTGTTCAACTGG 481
Db      241  TCATTGACTTCCAGCGTGTTCACCGCAAGATAGCCGCAAGTGTGTCTGTTCAACTGG 300
Qy      482  GTGGGGTACGAGCGCTCTTCACTGCGTCCGTTGGGAGCGCTGTTCCTCAAGCCATGACA 541
Db      301  GTGGGGTACGAGCGCTCTTCACTGCGTCCGTTGGGAGCGCTGTTCCTCAAGCCATGACA 360
Qy      542  GGTACATATTCATTACAGGCGCCCTGAGCTATAGAGATTTGTACAGGCCCAAGGCGG 601
Db      361  GGTACATATTCATTACAGGCGCCCTGAGCTATAGAGATTTGTACAGGCCCAAGGCGG 420
Qy      602  TGGTACGCTTTTGGCTGATGTGAGAACATAGCCATTGTATGCGCGGTGCTGCTCTCC 661
Db      421  TGGTACGCTTTTGGCTGATGTGAGAACATAGCCATTGTATGCGCGGTGCTGCTCTCC 480
Qy      662  GCTGGAACTGGAGAACTGCAATCTGTTTGTGCTGAGACATTTTCCACATTTAGTAA 721
Db      481  GCTGGAACTGGAGAACTGCAATCTGTTTGTGCTGAGACATTTTCCACATTTAGTAA 540
Qy      722  CCTACCTGATGTTCGTGATGCGGGGTACACAGCGTACTGCTTCTGTTCACTGTATGCG 781
Db      541  CCTACCTGATGTTCGTGATGCGGGGTACACAGCGTACTGCTTCTGTTCACTGTATGCG 600
Qy      782  ACATATATATTTCTCTGGAAGGCTCACAGCCGCTCGCATGATTCAGCTGGACACC 841
Db      601  ACATATATATTTCTCTGGAAGGCTCACAGCCGCTCGCATGATTCAGCTGGACACC 660
Qy      842  AGAAGAGCATCATTCACACAGCTGTGAGAGTGGAGAGTGAAGGCCGCGACAGCC 901
Db      661  AGAAGAGCATCATTCACACAGCTGTGAGAGTGGAGAGTGAAGGCCGCGACAGCC 720
Qy      902  AAGCCGCGATGACATTAAGTTAGTGAAGCAAGCCCTGTCTGTCTGTGTGTGTATCA 961
Db      721  AAGCCGCGATGACATTAAGTTAGTGAAGCAAGCCCTGTCTGTGTGTGTGTATCA 780
Qy      962  TCTGCTGGGGCCCTCTGCTTGTGCAATCATGTGTATGATGTC 1002
Db      781  TCTGCTGGGGCCCTCTGCTTGTGCAATCATGTGTATGATGTC 821

```

```

RESULT 5
DN533141      769 bp      mRNA      linear      EST 11-MAR-2005
DEFINITION   1361255 MARC 7BOV Bos taurus cDNA 5', mRNA sequence.
ACCESSION    DN533141
VERSION      DN533141.1 GI:60981254
KEYWORDS     EST.
SOURCE       Bos taurus (cattle)
ORGANISM     Bos taurus
              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
              Pecora; Bovidae; Bovinae; Bos.
REFERENCE    1 (bases 1 to 769)
AUTHORS      Smith,T.P.L., Roberts,A.J., Echtenkamp,S.E., Chitko-McKown,C.G.,
              Wray,J.B. and Keefe,J.W.
              A second set of bovine ESTs from pooled-tissue normalized libraries
              Unpublished (2003)
              Contact: Smith TPJ
              USDA, ARS, US Meat Animal Research Center
              PO Box 166, Clay Center, NE 68933-0166, USA
              Tel: 402 762 4366
              Fax: 402 762 4390
              Email: smitht@email.marc.usda.gov
              Single pass sequencing. Bases called with phred v0.020425.c and
              trimmed with the aid of the trim_alt option. Vector identified with
              cross_match v0.990329.
              Plate: RLK8056 row: D column: 11
              Seq primer: GTAAATACGACTCATCTATAGGG.
              Location/Qualifiers

```

```

FEATURES
Source
1..769

```

```

/organism="Bos taurus"
/mol_type="mRNA"
/db_xref="taxon:9913"
/tissue_type="pooled"
/lab_host="DH10B"
/clone_id="MARC 7BOV"
/note="Vector: pCDNA3.1; Site 1: EcoRI; Site 2: NotI;
library made with RNA pooled from multiple tissues
including ovary, hindbrain, uterus, and day-30 whole
embryos."

```

ORIGIN

```

Query Match      48.5%; Score 639.8; DB 9; Length 769;
Best Local Similarity 91.6%; Pred. No. 9.1e-156;
Matches 677; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

```

```

Qy      247  CAGCTGGCATTGCAAGTCTCTCTCAAGCTGGGCACTTCAAGGTCTTGGAGACTTC 306
Db      1    CAGCTGGCATTGCAAGTCTCTCTCTCAAGCTGGGCACTTCAAGGTCTTGGAGACTTC 60
Qy      307  CTGGTGTGTCGCGTCATCTCTCACTCCGCGAGCCTCGCTGCGAGGCTTCTTACCACTTC 366
Db      61  CTGGTGTGTCGCGTCATCTCTCACTCCGCGAGCCTCGCTGCGAGGCTTCTTACCACTTC 120
Qy      367  ATCGGACGCTGGGCGTGGAGAGACTCTCTGGGAGTGCATTTTGTCTACAGCTTCATT 426
Db      121  ATCGGACGCTGGGCGTGGAGAGACTCTCTGGGAGTGCATTTTGTCTACAGCTTCGTC 180
Qy      427  GACTTCAAGTGTTCACCGCAAGATAGCCGCAAGTGTTCATTAAGTGGTGG 486
Db      181  GACTTCAAGTGTTCACCGCAAGATAGCCGCAAGTGTTCATTAAGTGGTGG 240
Qy      487  GTCAAGGCTGCTTCACTGCGCTCGTGGGAGCGCTGTCTTCAAGGATGAGATGAC 546
Db      241  GTCAAGGCTGCTTCACTGCGCTCGTGGGAGCGCTGTCTTCAAGGATGAGATGAC 300
Qy      547  ATATCATTTCAAGGCGCCCTGAGCTATAGAGATTTGTACACAGGCCCAAGGCGGTGTA 606
Db      301  ATATCATTTCAAGGCGCCCTGAGCTATAGAGATTTGTACACAGGCCCAAGGCGGTGTA 360
Qy      607  GCGTTTGCCTGATGTGACCAATGACATTGTGATGCGCGTGTCTCTCTGCGGCTGG 666
Db      361  GCGTTTGCCTGATGTGACCAATGACATTGTGATGCGCGTGTCTCTCTGCGGCTGG 420
Qy      667  AATCGGAGAAATCGCATCTGTTTGTCAAGCAATTTCCACACATGATGAATACCTAC 726
Db      421  AATCGGAGAAATCGCATCTGTTTGTCAAGCAATTTTCCACACATGATGAATACCTAC 480
Qy      727  CTGATGTTCTGAGATCGGGGTACACAGCGTACTGCTTCTGTTCATCTGTATGCTGATG 786
Db      481  CTGATGTTCTGAGATCGGGGTACACAGCGTACTGCTTCTGTTCATCTGTATGCTGATG 540
Qy      787  TATATTTCTGGAAGGCTCAAGCCAGCGCGTCCGATGATTCAGCGTGGACCCAGAG 846
Db      541  TATATTTCTGGAAGGCTCAAGCCAGCGCGTCCGATGATTCAGCGTGGATCCAGAG 600
Qy      847  AGCATCATCATCCACAGCTGAGAGTGGAGAGTGAAGCCGCGACAGCCAGAACCC 906
Db      601  AGCATCATCATCCACAGCTGAGAGTGGAGAGTGAAGCCGCGACAGCCAGAACCC 660
Qy      907  CGCATGACATTTAGGTTAGCAAGACCTGTCTCTGATCTGTGTGTGATCATCTGTC 966
Db      661  CGCATGACATTTAGGTTAGCAAGACCTGTGTCTGATCTGTGTGTGATCATCTGTC 720
Qy      967  TGGGGCCCTGTGCTTGA 985
Db      721  TGGGGCCCTGTGCTGCAA 739

```

```

RESULT 6
CA327850      752 bp      mRNA      linear      EST 09-JUL-2003
LOCUS        CA327850
DEFINITION   UI-M-FY0-cw-f-15-0-UI.r1 NIH_BMAP_FY0 Mus musculus cDNA clone

```

IMAGE:6825328 5', mRNA sequence.
 CA327850
 VERSION CA327850.1 GI:24545948
 KEYWORDS EST.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridea; Muridae; Murinae; Mus.
 1 (bases 1 to 752)
 NIH-MGC <http://mgi.nci.nih.gov/>.
 National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)
 CONTACT: Robert Strausberg, Ph.D.
 Email: cgabbs-remail.nih.gov
 Tissue Procurement: Dr. Jim Lin, University of Iowa
 cDNA library preparation: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 This clone was contributed by the Brain Molecular Anatomy Project (BMAP)

FEATURES
 source
 Seq primer: pyx-5.
 Location/Qualifiers
 1..752
 /organism="Mus musculus"
 /mol_type="mRNA"
 /strain="C57BL/6"
 /db_xref="taxon:10090"
 /clone="IMAGE:6825328"
 /issue_type="whole brain"
 /dev_stage="embryo 13.5,14.5,16.5,17.5dpc"
 /lab_host="DH10B (T1 phage resistant)"
 /clone_1ib="NIH BMAP PYO"
 /note="Organ: Brain; Vector: pyx-Asc; Site 1: Bcor I; Site 2: Not I; The library was constructed according to Bonaldi, Lennon and Soares, Genome Research, 6:791-806, 1996. Denatured RNA was size fractionated on a 1% agarose gel. First strand cDNA synthesis was primed with oligo-dT primer containing a Not I site. Double strand cDNA was size selected according to mRNA size fraction, ligated with Bcor I adaptor, digested with NotI and then cloned directionally into pyx-Asc vector. The library tag sequence located between the Not I site and the polyA tail is AGCGAGACAG. This library was created for the University of Iowa Brain Anatomy Project (BMAP): 'Gene Discovery in the Developing Mouse Nervous System', supported by National Institute of Mental Health (NIMH), Hemlin Chin, Ph.D., Program coordinator."

ORIGIN
 Query Match 48.0%; Score 634.2; DB 4; Length 752;
 Best Local Similarity 90.2%; Pred. No. 2.6e-154;
 Matches 678; Conservative 0; Mismatches 74; Indels 0; Gaps 0;
 394 CTGGGAGTGCATTTTGTCTACAGCTTCATTTGACTTCACGTTTCCACCGCAAGAT 453
 Db 1 CTGGGAGTGCATTTTGTCTACAGCTTTTGTGACTTCACGTTTCCACCGCAAGAT 60
 454 AGCGGCAAGCTTTCTGTTCAAACTGGGTGGGGTCAAGGCTCTCTTCACTGCTCCGTG 513
 Db 61 AGTCCCAATGTGTTTCTGTTCAAACTGGGTGGGGTTCACGCTCTCTTCAAGCAATCTGTG 120
 514 GCGAGCTTCTTCACAGCCATTCAGAGTACATATTCATTCACAGGCCCTTGAGCTAT 573
 Db 121 GCGAGCTTCTTCACAGCCATTCAGAGTACATATTCATTCACAGGCCCTTGAGCTAT 180
 574 AAGAGATTTTCACAGGCCCAAGGCTGTTGAGGCTTTTGCCTGATGTGACCAATACCC 633
 Db 181 AAGAGATTTTCACAGGCCCAAGGCTGTTGAGGCTTTTGCCTGATGTGACCAATACCC 240

Qy 634 ATTGTGATGCCGCTGTGCTCTCTCTGGGCTGGAACTGGAGAACTGATCTGTTTC 693
 Db 241 ATAGTATATGCTGTGTGCTCTCTCTGGGCTGGAACTGGAGAACTGATCTGTTTC 300
 Qy 694 TCAGCATTTTCCACACATTTGATGAAACCTACCTGATTTTCTGATCGGGGTACACAC 753
 Db 301 TCAGCATTTTCCACACATTTGATGAAACCTACCTGATTTTCTGATCGGGGTACACAC 360
 Qy 754 GTACTGCTTCTGTTCACTGTATGCGTATGATGATGATGATGATGATGATGATGATG 813
 Db 361 GTACTGCTTCTGTTCACTGTATGCGTATGATGATGATGATGATGATGATGATGATG 420
 Qy 814 GCGTCCGATATTTCAAGGTGGCAACCGAAGACATATATTCACACGCTGAGAT 873
 Db 421 GAGTGTGATATTCAGGTGGCAACCGAAGACATATATTCACACGCTGAGAT 480
 Qy 874 GGAAGGTATACAGGTACCCGCGCAGACCAAGCCGATGATGATGATGATGATGATGATG 933
 Db 481 GGAAGGTATACAGGTACCCGCGCAGACCAAGCCGATGATGATGATGATGATGATGATG 540
 Qy 934 CTGCTCTGATCTGT 993
 Db 541 CTGCTCTGATCTGT 600
 Qy 994 TATGATGCTTTTGGGAATGAAACAGCTCATTAAGAGCGTGTTCATTTGCACTATG 1053
 Db 601 TATGATGCTTTTGGGAATGAAACAGCTCATTAAGAGCGTGTTCATTTGCACTATG 660
 Qy 1054 CTCTCCCTGCTGAATCTCAGCCGTAACCCCATCATCTATGCTCTGAGAGTAAAGCCGT 1113
 Db 661 CTCTCCCTGCTGAATCTCAGCCGTAACCCCATCATCTATGCTCTGAGAGTAAAGCCGT 720
 Qy 1114 GCAACAGCTTTTCCGAGCATGTTTCCCTCTTG 1145
 Db 721 AGACATGCTTTCCGAGCATGTTTCCCTCTTG 752

RESULT 7
 CA328435 737 bp mRNA linear EST 09-JUL-2003
 LOCUS CA328435
 DEFINITION UI-M-FY0-cdb-f-10-0-UI-r1 NIH BMAP_FY0 Mus musculus cDNA clone
 IMAGE:6827243 5', mRNA sequence.
 CA328435
 ACCESSION CA328435.1 GI:24546533
 VERSION CA328435
 KEYWORDS EST.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridea; Muridae; Murinae; Mus.
 1 (bases 1 to 737)
 NIH-MGC <http://mgi.nci.nih.gov/>.
 National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)
 CONTACT: Robert Strausberg, Ph.D.
 Email: cgabbs-remail.nih.gov
 Tissue Procurement: Dr. Jim Lin, University of Iowa
 cDNA library preparation: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 This clone was contributed by the Brain Molecular Anatomy Project (BMAP)

FEATURES
 source
 Seq primer: pyx-5.
 Location/Qualifiers
 1..737
 /organism="Mus musculus"
 /mol_type="mRNA"
 /strain="C57BL/6"
 /db_xref="taxon:10090"
 /clone="IMAGE:6827243"

/tissue_type="whole brain"
 /dev_stage="embryo 13.5,14.5,16.5,17.5dpc"
 /lab_host="DH10B (T1 phase resistant)"
 /clone_lib="NIH_BMAP_FY0"
 /note="Organ: Brain; Vector: pYX-Aec; Site 1: EcoR I;
 Site 2: Not I; The library was constructed according
 Bonaldi, Lennon and Soares, Genome Research, 6:791-806,
 1996. Denatured RNA was size fractionated on a 1% agarose
 gel. First strand cDNA synthesis was primed with oligo-dT
 primer containing a Not I site. Double strand cDNA was
 size selected according to mRNA size fraction, ligated
 with EcoR I adaptor, digested with NotI and then cloned
 directionally into pYX-Aec vector. The library tag
 sequence located between the Not I site and the polyA tail
 is AGCGAGACG. This library was created for the University
 Iowa Brain Anatomy Project (BMAP): 'Gene Discovery in the
 Developing Mouse Nervous System', supported by National
 Institute of Mental Health (NIMH), Hemlin Chin, Ph.D.,
 program coordinator."

ORIGIN

Query Match 47.8%; Score 630.4; DB 4; Length 737;
 Best Local Similarity 90.9%; Pred. No. 2.6e-153;
 Matches 670; Conservative 0; Mismatches 67; Indels 0; Gaps 0;

414 CTACAGCTTCATTGACCTTCACGCTGTCACGCAAGATAGCCGGAAGCTTTCTGTT 473
 1 CTACAGCTTCATTGACCTTCACGCTGTCACGCAAGATAGCTTCGGAAGCTTTCTGTT 60
 474 CAACCTGGGAGGAGTCAAGGCTCTCTTCACTGCTCCGAGGAGCTGTTCTTCAAGC 533
 61 CAACCTGGGAGGAGTCAAGGCTCTCTTCACTGCTCCGAGGAGCTGTTCTTCAAGC 120
 534 CATGCAACGATTCATATCCATTCACAGGCGCCCTGAGCTTATAGAGATTTGTACCAAGCC 593
 121 CATGCAACGATTCATATCCATTCACAGGCGCCCTGAGCTTATAGAGATTTGTACCAAGCC 180
 594 CAAGGCGCTGATGAGCTTTGCTGATGAGCAATAGCATTGATGCGCGTCTGCC 653
 101 CAAGGCGCTGATGAGCTTTGCTGATGAGCAATAGCATTGATGCGCGTCTGCC 240
 654 TCTCTGGGCTGGAACCTGCGAAGAACTGCAATCTGTTGCTCAGACATTTTCCACAGAT 713
 241 TCTCTGGGCTGGAACCTGCGAAGAACTGCAATCTGTTGCTCAGACATTTTCCACAGAT 300
 714 TGATGAAACCTTACCTGATGTTCTGATGAGGAGTCAACAGCGTACCTTCTGTTATGCT 773
 301 TGATGAAACCTTACCTGATGTTCTGATGAGGAGTCAACAGCGTACCTTCTGTTATGCT 360
 774 GTATGATCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 833
 361 GTATGATCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 420
 834 TGCGAAGCCGAGAGAGATCATCATCAACGCTGAGAGATGGAAGATACAGTGAACCG 893
 421 TGCGAAGCCGAGAGAGATCATCATCAACGCTGAGAGATGGAAGATACAGTGAACCG 480
 894 GCGAAGCCGAGAGAGATCATCATCAACGCTGAGAGATGGAAGATACAGTGAACCG 953
 481 GCGAAGCCGAGAGAGATCATCATCAACGCTGAGAGATGGAAGATACAGTGAACCG 540
 954 GTTGTATCATCTGCTGGGAGCTCTGCTGCGATCATGATGATGATGATGATGATGATGAT 1013
 541 GTTGTATCATCTGCTGGGAGCTCTGCTGCGATCATGATGATGATGATGATGATGATGAT 600
 1014 GAACAAGCTCATTAAGAGAGGTTTGATTTGCAATGTCAGATATCTCTGCTGCTGAACCTCA 1073
 601 GAACAAGCTCATTAAGAGAGGTTTGATTTGCAATGTCAGATATCTCTGCTGCTGAACCTCA 660
 1074 GGTGAAGCCCATCATCTATGCTCTGAGAGATGAAGATCTGCGACACGCTTTTCCGAGAT 1133
 661 GGTGAAGCCCATCATCTATGCTCTGAGAGATGAAGATCTGCGACACGCTTTTCCGAGAT 720

QY 1134 GTTCCCTCTGTGAAG 1150
 DB 721 GTTCCCTCTGTGAAG 737

RESULT 8
 LOCUS DY320503
 DEFINITION DY320503 717 bp. mRNA linear. EST 08-FEB-2006
 AGNCOURT 66892761 NIH_MGC_365 Rattus norvegicus cDNA clone
 IMAGE:8362287 5', mRNA sequence.
 ACCESSION DY320503
 VERSION DY320503
 KEYWORDS DY320503.1 GI:87003257
 SOURCE Rattus norvegicus (Norway rat)
 ORGANISM Rattus norvegicus

REFERENCE
 AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Muridae; Muridae; Murinae; Rattus.
 TITLE NIH-MGC http://mgc.nci.nih.gov/
 JOURNAL 1 (bases 1 to 717)
 COMMENT Unpublished (1999)
 Contact: Daniela S. Gerhard, Ph.D.
 Office of Cancer Genomics / NIH
 National Cancer Institute
 Bldg. 31 Rm10A07 Bethesda, MD 20892
 Email: cgsabbs-remail.nih.gov
 Tissue Procurement: Howard J. Jacob

cDNA Library Preparation: Express Genomics
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: LLM18153 row: n column: 13
 High quality sequence stop: 648.
 Location/Qualifiers

FEATURES

source

1..717
 /organism="Rattus norvegicus"
 /mol_type="mRNA"
 /db_xref="taxon:10116"
 /clone="IMAGE:8362287"
 /tissue_type="whole brain, pool of 7"
 /lab_host="DH10B Tona"
 /clone_lib="NIH_MGC_365"
 /note="Organ: brain/CNS; Vector: pExpress-1; Site 1:
 EcoRV; Site 2: NotI; cDNA was primed using oligo-dT
 primer: 5'-pGACTGATCTTACATGCGAGCGCGCCCTG-3' and
 cloned into the EcoRV/NotI sites of pExpress-1.
 Size-selection >1.kb resulted in an average insert size
 of 2.kb. This is a non-normalized primary library
 (normalized primary library is NIH_MGC_366) and was
 constructed by Express Genomics (Frederick, MD) for the
 Mammalian Gene Collection http://mgc.nci.nih.gov/."

ORIGIN

Query Match 46.7%; Score 616.2; DB 10; Length 717;
 Best Local Similarity 91.2%; Pred. No. 1.3e-149;
 Matches 654; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

463 GTGTTTCTGTTCAACAGTGGGAGTCAAGGCTCTTCACTGCTCGTGGAGAGCTG 522
 DB 1 GTGTTTCTGTTCAACAGTGGGAGTCAAGGCTCTTCACTGCTCGTGGAGAGCTG 60
 523 TTCTCACAAGCATGACAGGATCATATCATTTACAGAGCCCTGGGCTATTAAGGATT 582
 DB 61 TTCTCACAAGCATGACAGGATCATATCATTTACAGAGCCCTGGGCTATTAAGGATC 120
 583 GTACAGGAGCCCAAGGCGGTGTGAGCTTTGGCGATGAGAACATAGCCATTGTGATC 642
 DB 121 GTACAGGAGCCCAAGGCGGTGTGAGCTTTGGCGATGAGAACATAGCCATTGTGATC 180
 643 GCGGTGCTCTCTCTGGGCTGGAACCTGCAAGAACTGCAATCTGTTGCTCAGACATT 702

Db 181 GGTGGTTCCTCTCTCGGGCTGGAACCTGCAAGAGCTGCATCTGTTTGCTGGACATT 240

Qy 703 TTCCCAACATTGATGAAACCTTACCTGATGTTCTGGAATCGGGGTCAACAGCGTACTGCTT 762

Db 241 TTCCCACTATTGACGAGAGACTTACCTGATGTTCTGGAATGGGGGTGACAGATGTCGTCTG 300

Qy 763 CTGTTTCATGCTGTATATGCGGTACATGTTATATTTCTTGGAAAGGCTTCAAGCCACGCGGTCCG 822

Db 301 CTGTTTCATGTTGTATGCGGTACATGTTATCATTTCTTGGAAAGGCTTCAAGCCATGCGGTCCG 360

Qy 823 ATGATTTCAAGCGTGGCAACCCAGAAAGCATCATCATCAACGCTGAGGATGGGAAGATA 882

Db 361 ATGATTTCAAGCGTGGGAGCCAGAAAGCATCATCATCAACGCTGAGGAGGCAAGGTG 420

Qy 883 CAGGTGACCCGGCCAGAGCCAAAGCCGATGACATTAGGTTAGCCAAAGCCCTGATCTTG 942

Db 421 CAGGTGACCCGGCCGTGACCAAGCCCGCATGACATTAGGCTGGCCAAAAACCTGGTTCTG 480

Qy 943 ATCTCGTGGTGTATGATCATCTGCTGGGGGCCCTCTGCTTGCAATCATGCTGTATGATGTC 100

Db 481 ATCTCGTGGTGTATGATCATCTGCTGGGGGCCCTCTGCTTGCAATCATGCTGTATGATGTC 540

Qy 1003 TTTGGGAAGATGAACAAGCTCATTTAAGACGGATGTTGCATTCTGACGATATGCTCTGCGCTG 106

Db 541 TTCCGGGAAGATGAACAAGCTTATCAAGACGGATGTTGCTTCTGCAATGCTCTGCGCTG 600

Qy 1063 CTGAATCTCAACCGTGAACCCCATCATTTATGCTCTGAGGAGTAAAGGACCTGCGACAGCT 1122

Db 601 CTGAATCTCAACCGTGAACCCCATCATTTATGCTCTGAGGAGCAAGGACCTGAGAACATGCT 660

Qy 1123 TTCCGGGAAGATGTTCCCTCTTGTGTAAGGACCTGCGCAACCTCTGGATTAACAGCATG 1179

Db 661 TTCCGAAGCATGTTCCCTCTTGTGCGAAGGACCCGCAACAGCTCTTGAACAACATCTAAG 717

```

RESULT 9
CB244710
LOCUS
DEFINITION
CB244710      844 bp      mRNA      linear      EST 09-JUL-2001
UI-M-FV0-cdr-m-10-0-UI.r1 NIH-BMAP_FV0 Mus musculus cDNA clone
IMAGE:683555 5', mRNA sequence.
ACCESSION
CB244710
VERSION
CB244710.1      GI:28366354
KEYWORDS
EST.
SOURCE
Mus musculus (house mouse)
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Scurionathi; Muroidae; Muridae; Murinae; Mus.
1 (bases 1 to 844)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Dr. Jim Lin, University of Iowa
cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/ILNL at:
http://image.llnl.gov
This clone was contributed by the Brain Molecular Anatomy Project
(BMAP)
Seq primer: PYX-5.
Location/Qualifiers
1..844

```

```

/organism="Mus musculus"
/mol_type="RNA"
/strain="C57BL/6"
/db_xref="taxon:10090"
/clone="IMAGE:683355"
/tissue_type="whole brain"

```

```

/dev stage="embryo 13.5,14.5,16.5,17.5dp"
/lab host="HDH08 (T1 phage resistant)"
/clonE_lib="N1H_EMAP_F10"
/notes="Organ: Brain; Vector: pYx_Asc; Site_1: EcoR I;
Site_2: Not I; The library was constructed according
Bonaldo, Gennone and Soares, Genome Research, 6:791-806,
1996. Denatured RNA was size fractionated on a 1% agarose
gel. First strand cDNA synthesis was primed with oligo-dT
primer containing a Not I site. Double strand cDNA was
size selected according to mRNA size fraction, ligated
with EcoR I adaptor, digested with NotI and then cloned
directionally into pYx_Asc vector. The library tag
sequence located between the Not I site and the polyA tail
is AGCAGACAG. This library was created for the University
Iowa Brain Anatomy Project (EMAP): 'Gene Discovery in the
Developing Mouse Nervous System', supported by National
Institute of Mental Health (NIMH), Hemin Chin, Ph.D.,
program coordinator."

```

Query Match	Similarity	45.7%	Score	602.8	DB	4	Length	844
Best Local	Similarity	90.6%	Pred.	No. 4.4e-145				
Matches	Conservative	0	Mismatches	67	Indels	2	Gaps	2
QY	285	CTTCAAGCTCTGAGAACTCTCTGCTGCTGCTCAATCTTCACTCCGACGCTCCG	344					
Db	1	CTTCAAGGTTCTGGAGAACTGCTGCTGCTATGCTCATCTTCACTCCGACGCTCCG	60					
QY	345	CTGCAAGGCTTCTTACCACTTCACTGAGAGCTGGCGGTGGCAGACCTCTGGGGAGTGT	404					
Db	61	ATGCAAGGCTTCTTACCACTTCACTTGGAGGCTGGCGGTGGCGCACTCTCTGGGAAGTGT	120					
QY	405	CATTTTGTCTACAGCTTCACTTGACTTCAAGTGTTCACCGCAAGATAGCCGACAGT	464					
Db	121	CATTTTGTCTACAGCTTGTGTACTTCAAGTGTTCACCGCAAGATAGTCCCAAGT	180					
QY	465	GTTTCTGTCAAGCTGGGTGGGGTCAAGGCTCTCTTCACTGCTCTCGTGGCAGCTGT	524					
Db	181	GTTTCTGTTCAACTGGGTGGGGTTACAGGCTCTCTTCAAGATGTGAGGAGCTGT	240					
QY	525	CCTCAAGGCTTGAAGAGTCAATATCATTTCAAGGCGCTGGCTTAAAGAGATGT	584					
Db	241	CCTCAAGGCTTGAAGAGTCAATATCATTTCAAGGCTTGAAGAGATGT	300					
QY	585	CACCAAGGCCAAGGCCGTGGTAGGCTTTGCTGATGAGACATAGCACTTGATGATGC	644					
Db	301	CACAGGCTCCAGGCGCTGATGGCTTTTGTGATGAGACATATGCAATGATGATGTC	360					
QY	645	CGTCTGCTCTCTCTGGGCTGGAACTGCGAAGAACTGCATCTGTTTCTGACATTTT	704					
Db	361	TGATGCTCTCTCTCTGGGCTGGAACTGGAAGAGCTGGAATCTGTTTCTGACATCTT	420					
QY	705	CCCAACAATTGATGAAACTTACTGATGTTTGGATGGGGGTCAACAGCGTACTGCTCT	764					
Db	421	CCCACTTATGATGAAACTTACTGATGTTTGGATGGAGTCAACAGTGTGCTGCTCT	480					
QY	765	GTTTCATGCTGATCGTATCATGTATTTCTGTGAAGGCTGACAGGCAAGCGCTCCGAT	824					
Db	481	GTTTCATGCTGATGATCATGATCATTTCTGTGAAGGCTGACAGGCAAGCGAT	540					
QY	825	GATTCAAGCTGGAGCCAGAAAGACATCATCAACGTCTGAGATGGAAAGGTACA	884					
Db	541	GATTCAGCTGGAGCCAGAAAGACATCATTTCAACCTCAGAAAGTGGCAAGGTCA	600					
QY	885	GGTGAAGCCGCGCAGAACCAAGCCGCGCATGGACATTTAGTTAGCCAAAGCCCTGTCTGAT	944					
Db	601	GGTGAAGCCGCGCAGAACCAAGCCGCGCATTTAGGCTGGCCAA-ACCTCGATCTGAT	659					
QY	945	CTGTGTGTGTGATCATCTGCTGGGGCCCTGCTCTGCAATCATGGGTATGATGCTT	1004					
Db	660	CTGTGTGTGTGATCATCTGCTGGGG-CTCTGCTTGCATCATGGGTATGATGCTT	718					
QY	1005	TGGAGAAAGATGACA	1018					

DB 719 TGGGAAGATGAACA 732

|||||

RESULT 10
CF533059 737 bp mRNA linear EST 12-SEP-2003
LOCUS CF533059
DEFINITION UI-M-FPO-C98-F-20-0-UI-r1 NIH BMAP_FPO Mus musculus cDNA clone
IMAGE:30361963 5', mRNA sequence.
ACCESSION CF533059
VERSION CF533059.1 GI:34585027
KEYWORDS EST.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridea; Muridae; Murinae; Mus.
REFERENCE
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@bbs-remail.nih.gov
Tissue Procurement: Dr. Jim Lahn, University of Iowa
cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Distribution Information can be found at
http://genome.uiowa.edu/distribution/mouseefl.html
This clone was contributed by the Brain Molecular Anatomy Project
(BMAP)
Seq primer: pyx-5.
FEATURES
source location/Qualifiers
1..737
/organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL/6"
/db_xref="taxon:10090"
/clone="IMAGE:30361963"
/tissue_type="whole brain"
/dev_stage="embryo 13.5,14.5,16.5,17.5dpc"
/lab_host="DH10B (T1 phage resistant)"
/clone_1lb="NIH BMAP FPO"
/note="Organ: Brain; Vector: pyx-Abs; Site 1: Ecor I;
Site 2: Not I. The library was constructed according
Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
1996. Denatured RNA was size fractionated on a 1% agarose
gel. First strand cDNA synthesis was primed with oligo-dT
primer containing a Not I site. Double strand cDNA was
size selected according to mRNA size fraction, ligated
with Ecor I adaptor, digested with NotI and then cloned
directionally into pyx-Abs vector. The library tag
sequence located between the Not I site and the polyA tail
is AGCGAGACAG. This library was created for the University
Iowa Brain Anatomy Project (BMAP): 'Gene Discovery in the
Developing Mouse Nervous System', supported by National
Institute of Mental Health (NIMH), Hemin Chin, Ph.D.,
program coordinator."

ORIGIN
Query Match 45.4%; Score 599.8; DB 5; Length 737;
Best Local Similarity 89.1%; Pred. No. 2.6e-145;
Matches 657; Conservative 0; Mismatches 79; Indels 1; Gaps 1;

QY 148 AACAACTCTCTCTGCTTCAAGAGAAATGAGAGACATCACTGCT-GGGAGAACTT 206
|||||
DB 1 AACAGTCTCTCTCACTGTTCAAGGAGAGAGCAACATCCAGTGTGGGAGAAATT 60
|||||
QY 207 CATGACATAGAGTGTTCATGCTCTGAACCCAGCGACGCTGGGACATTGACGCTCT 266
|||||
DB 61 TATGGACATAGAGTGTTCATGCTCTGAATCCAGCCAGCGCTGGGACATGCTCTCT 120
|||||
QY 267 GTCCCTCAAGCTGGGACCTTCAAGGCTCTGAGAGAACTCTGCTGTGCTATCTCT 326
|||||

DB 121 GTCCCTCAACCTGGGACCTTCAAGGCTCTGAGAGAACTGCTGCTGATGTCATCTCT 180
|||||

QY 327 CCATCTCCCGAGAGCTCCGCTGTCAGAGCTTCTCTACCTTATATGCGAGCGGGGGGCG 386
|||||

DB 181 TCATCTCCCGAGAGCTCCGCTGTCAGAGCTTCTCTACCTTATATGCGAGCGGGGGGCG 240
|||||

QY 387 AGACCTCTCCGAGAGTGTTCATGCTCTGAGAGCTTCTCTACCTTATATGCGAGCGGGGGGCG 446
|||||

DB 241 CGATCTCTCCGAGAGTGTTCATGCTCTGAGAGCTTCTCTACCTTATATGCGAGCGGGGGGCG 300
|||||

QY 447 CAAAGATAGCCGCAAGCTGTTCTGTTCAACCTGGGGGTCAAGGCTCTCTCTCTCTCTCT 506
|||||

DB 301 CAAAGATAGCCGCAAGCTGTTCTGTTCAACCTGGGGGTCAAGGCTCTCTCTCTCTCTCT 360
|||||

QY 507 CTCTCTGAGAGAGCTGTTCTCTCAAGGCTTCAAGAGTATATATGCAAGAGCGGCTCT 566
|||||

DB 361 ATCTGTGGGAGAGCTGTTCTCTCAAGGCTTCAAGAGTATATATGCAAGAGCGGCTCT 420
|||||

QY 567 GGCTTATPAGAGATGTCATGTCAGAGGCGGAGGCGGCTGAGAGCTGAGAGTGGAGC 626
|||||

DB 421 GGCTTATPAGAGATGTCATGTCAGAGGCGGAGGCGGCTGAGAGCTGAGAGTGGAGC 480
|||||

QY 627 CATAGCCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 686
|||||

DB 481 TATGCAATAGTAAATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCATGTCAT 540
|||||

QY 687 TGTTCGTCAGACATTTTCCGACATGAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 746
|||||

DB 541 TGTTCGTCAGACATTTTCCGACATGAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 600
|||||

QY 747 CACGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 806
|||||

DB 601 CACGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
|||||

QY 807 CAGCCAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 866
|||||

DB 661 CAGCCAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
|||||

QY 867 TGAGATGCGGAAGGTAC 883
|||||

DB 721 CAGAGATGCGGAAGGTAC 737
|||||

RESULT 11
CO959553/c 774 bp mRNA linear EST 17-AUG-2004
LOCUS AGNCCOURT_30842409 NIH_MGC_146 Homo sapiens cDNA clone
DEFINITION IMAGE:7389731 3', mRNA sequence.
ACCESSION CO959553
VERSION CO959553.1 GI:51324126
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominae; Homo.
REFERENCE
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Daniela S. Gerhard, Ph.D.
Office of Cancer Genomics / NIH
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cga@bbs-remail.nih.gov
Tissue Procurement: Guthrie cDNA Resource Center
cDNA Library Preparation: Guthrie cDNA Resource Center
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LMD at:
http://image.llnl.gov

AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Dr. Jim Lin, University of Iowa
 CDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/MLML at: <http://image.llnl.gov>
 This clone was contributed by the Brain Molecular Anatomy Project (BMAP)

FEATURES Seq primer: pYX-5
 Location/Qualifiers

```

1..780
/organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL/6"
/db_xref="taxon:10090"
/clone="IMAGE:6409234"
/tissue_type="whole brain"
/dev_stage="embryo 12.5dpc"
/lab_host="DH10B (T1 phage resistant)"
/clone_lib="NIH BMAP F00"
/note="Organ: Brain; Vector: pYX-Absc; Site_1: EcoR I; Site_2: Not I; The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. Denatured RNA was size fractionated on a 1% agarose gel. First strand cDNA synthesis was primed with oligo-dT primer containing a Not I site. Double strand cDNA was size selected according to mRNA size fraction. Ligated with EcoR I adaptor, digested with NotI and then cloned directionally into pYX-Absc vector. The library tag sequence located between the Not I site and the polyA tail is TGAGAGAGCC. This library was created for the University of Iowa Brain Anatomy Project (BMAP); 'Gene Discovery in the Developing Mouse Nervous System', supported by National Institute of Mental Health (NIMH), Hemlin Chin, Ph.D., program coordinator."

```

ORIGIN

Query Match 43.3%; Score 571; DB 3; Length 780;
 Best Local Similarity 87.4%; Pred. No. 9e-138;
 Matches 646; Conservative 0; Mismatches 89; Indels 4; Gaps 2;

```

OY 52 ACTGACCTCTCGGAAATCCCTTCCAGAGATGATCGGAGAGAACCCCGAGCTA 111
DB 43 ACTTCCTTCAGGGGTAGTCTCTCCAGAAAAGATGACGAGAGACAACTCCCGTTG 102
OY 112 GTCCAGC--AGACCAAGGTGAACATTACAGATTATTAACAAGTCTCTCGTCTTC 168
DB 103 GTTCCAGCAGAGACAAACAATTACAGATTCTATTAACAAGTCTCTCATCGTTTC 162
OY 169 AAGGGAATGAGAGAAATTCAGTGTGGGGAACCTTATGACATTAAGTGTTCATG 228
DB 163 AAGGGAACGAGAAACATTCAGTGTGGGGAATTTATGACATGAGTGTTCATG 222
OY 229 GTCTGTAACCCGAGCAGAGCTGGCCATTCAGTCTCTGCTCCCTGACGCTGGAGCTTC 288
DB 223 ATTTCGAATCCAGCAGAGCTGGCCATTCAGTCTCTGCTCCCTGACGCTGGAGCTTC 282
OY 289 ACGGCTTCGAGAACCTCTGCTGTGCTGCTGATCTTCACCTCCGCGAGCTCGCTGC 348
DB 283 ACGGCTTCGAGAACCTCTGCTGTGCTGCTGATCTTCACCTCCGCGAGCTCGCTGC 342
OY 349 AGGCTTCCTACCATCTATGCGAGCTGGGCGGTGGCGAGACTCTCTGGAGGTTCATT 408
DB 343 AGGCTTCCTACCATCTATGCGAGCTGGGCGGTGGCGAGACTCTCTGGAGGTTCATT 402
OY 409 TTTGTCTACAGCTTATGACTTTCACGCTGTTCACCGCAAGATAGCGCAACGTGTTT 468

```

```

DB 403 TTTGTCTACAGCTTATGACTTTCACGCTGTTCACCGCAAGATAGTCCCAATGTGTTT 462
OY 469 CTGTTAAACTGGGTGGGGTACGAGCTCTCTTCATGCTCCGTGGGCAAGCTGTTCCTC 528
DB 463 CTGTTAAACTGGGTGGGGTACGAGCTCTCTTCATGCTCTGGGCAAGCTGTTCCTC 522
OY 529 AAGCCATGAGAGAGTATTCATTCATTCACAGGCCCCCTGGCCCTATTAAGAGATTCAC 588
DB 523 AAGCCATGAGAGAGTATTCATTCATTCACAGGCCCCCTGGCCCTATTAAGAGATTCAC 582
OY 589 AAGCCCAAGCCGCTGTAGCTTTTGCCTGATGTGAGACCATAGCATTCGCGCTG 648
DB 583 AAGCCCAAGCCGCTGTAGCTTTTGCCTGATGTGAGACCATAGCATTCGCGCTG 642
OY 649 CTGCTCTCTGGGCTGGAATGCGAGAAATGCAATCTGTTGCTCAGACATTTTCCCA 708
DB 643 TTGCTCTCTGGGCTGGAATGCGAGAAATGCAATCTGTTGCTCAGACATTTTCCCA 702
OY 709 CCAATTGATGAACCACTGATGTTTGGATCGGGGTGACCAAGCTACTGCTTCTGTC 768
DB 703 CTCATTGATGANA-CTACCTGATGTTTGGATCGAGTCACCAAGTGTGCTGTTTC 761
OY 769 ATCGGTATGCTGACATGT 787
DB 762 ATGTGTATGATACATATGT 780

```

RESULT 15
LOCUS CB520209 789 bp mRNA linear EST 09-JUL-2003
DEFINITION UI-M-G10-csl-w-16-0-UI.r1 NIH_BMAP_G10 Mus musculus cDNA clone
IMAGE:6840089 5', mRNA sequence.
ACCESSION CB520209
VERSION CB520209.1 GI:29353564
KEYWORDS EST.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus

REFERENCE NIH-MGC <http://mgc.nci.nih.gov/>.
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished (1999)
JOURNAL Contact: Robert Strausberg, Ph.D.
COMMENT Email: cgapbs-remail.nih.gov
 Tissue Procurement: Dr. Jim Lin, University of Iowa
 CDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Distribution information can be found at <http://genome.uiowa.edu/distribution/mousef.html>
 This clone was contributed by the Brain Molecular Anatomy Project (BMAP)

FEATURES Seq primer: pYX-5.
 Location/Qualifiers

```

1..789
/organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL/6"
/db_xref="taxon:10090"
/clone="IMAGE:6840089"
/tissue_type="whole brain"
/dev_stage="embryo 13.5,14.5,15.5,16.5,17.5dpc"
/lab_host="DH10B (T1 phage resistant)"
/clone_lib="NIH BMAP G10"
/note="Organ: Brain; Vector: pYX-Absc; Site_1: EcoR I; Site_2: Not I; The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. Denatured RNA was size fractionated on a 1% agarose gel. First strand cDNA synthesis was primed with oligo-dT primer containing a Not I site. Double strand cDNA was size selected according to mRNA size fraction. Ligated

```

with EcoR I adaptor, digested with NotI and then cloned directionally into pIX-Asc vector. The library tag sequence located between the Not I site and the polyA tail is AGCGAGACAG. This library was created for the University Iowa Brain Anatomy Project (BMAP): 'Gene Discovery in the Developing Mouse Nervous System', supported by National Institute of Mental Health (NIMH), Hemin Chin, Ph.D., program coordinator."

ORIGIN

```
Query Match      43.2%; Score 570.8; DB 4; Length 789;
Best Local Similarity 87.3%; Pred. No. 1e-137;
Matches 647; Conservative 0; Mismatches 90; Indels 4; Gaps 2;

QY 52 ACTGACCTTCCTGGGAAGTCCCTTCCAGAGAAAGATGACTGCGGAGACAACTCCCAAGCTTA 111
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 49 ACTTCCTTCAGGGGTAGTCCCTTCCAGAAAAGATGACGGCAGAGACAACTCCCGTTG 108
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 112 GTCCAGC---AGACCAAGGTGAACATTCAGAAATTTTACAAACAAGTCTCTCGTCTTC 168
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 109 GTTCAGCAGGAGACAAACCAACATTCAGAGTCTTATPACAAAGTCTCTCATCGTTC 168
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 169 AAGGAAATGAGAGAAACATCCAGTGTGGGAGAACTTCATGACATAGAGTTCATG 228
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 169 AAGGAAACGAGACAAACATCCAGTGTGGGAGAAATTTATGACATGAGTGTCTCATG 228
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 229 GTCTGAAACCCAGCCAGCAGCTGGCCATTCGAGTCTGTCTCCCTCAAGCTGGGCACTTC 288
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 229 ATTCTGAATCCAGCCAGCAGCTGGCCATTCGAGTCTGTCTCCCTCAAGCTGGGCACTTC 288
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 289 AAGGTCCTGGAACACTCTGTCGTGTGTCGTCATCTCCACTCCCGCAGCCTCCGCTGC 348
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 289 AAGGTCCTGGAACACTCTGTCGTGTGTCGTCATCTCCACTCCCGCAGTCTCCGATGC 348
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 349 AAGCCTTCCTCAACATTCATCGGACGCTGGCGGTGGACAGACTCTGCGGAGATGTCATT 408
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 349 AAGCCTTCCTCAACATTCATTCATGGACGCTGGCGGTGGCCGATCTCTGGGAAGTGTATC 408
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 409 TTTGTCTACAGCTTCATTCATTCACGCTGTTCACCGCAAAAGATAGCCGCAACGTGTT 468
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 409 TTTGTCTACAGCTTCATTCATTCACGCTGTTCACCGCAAAAGATAGTCCCAATGTGTT 468
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 469 CTGTTCAACTGGGTGGGTCAACGCTCTCTCACTGCTCCGCTGGGGGCAAGCTGTCTTC 528
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 469 CTGTTCAACTGGGTGGGTCAACGCTCTCTCTCACTGCTCCGCTGGGGGCAAGCTGTCTTC 528
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 529 ACAGCCATGACAGGATCATATTCATTCACAGGCCCTGCGCTATPAGAAGATGTTCACC 588
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 529 ACAGCCATGACAGGATCATATTCATTCACAGGCCCTGCGCTATPAGAAGATGTTCACC 588
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 589 AAGCCCAAGGCGGTGTAGCGTTTGTCTGATGTGACCATAGCCATTGTGATCGCCGTG 648
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 589 AAGCCCAAGGCGGTGTAGCGTTTGTCTGATGTGACCATAGTAATGCTGTG 648
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 649 CTGCTCTCTGCGCTGGAACCTGCGAAGAACTGCAATCTGTTGCTCAGACATTTTCCCA 708
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 649 TTGCTCTCTGCTGCTGGAACCTGCGAAGAACTGCAATCTGTTGCTCAGACATTTTCCCA 708
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 709 C-ACATTTGATGAACCTACCTGATGTTCTGATCGGGGTCAACAGCGTACTGCTTCTGTT 767
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 709 CTCGATGTGATGAACTTACTGATGTTCTGATCGGAGTCAACAGTGTGCTGTGCTGTT 768
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 768 CATCGTATGCGGTACATGTA 788
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 769 CATGTGATGATACATATGTA 789
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

Search completed: June 17, 2006, 03:36:39
Job time : 6943 secs

GenCore version 5.1.9
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OW nucleic - nucleic search, using sw model

Run on: June 16, 2006, 23:32:16 ; Search time 287 Seconds
(without alignments)
8605.797 Million cell updates/sec

Title: US-10-521-428a-1

Perfect score: 1320

Sequence: 1 atgagtcgacccagatg.....cgtctgcgagcctctgta 1320

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1403666 seqs, 93554401 residues

Total number of hits satisfying chosen parameters: 2807332

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Issued Patents NA.*

1: /EMC_Celerra_SIDS3/ptodata/2/ina/1.COMB.seq:*
2: /EMC_Celerra_SIDS3/ptodata/2/ina/5.COMB.seq:*
3: /EMC_Celerra_SIDS3/ptodata/2/ina/6A.COMB.seq:*
4: /EMC_Celerra_SIDS3/ptodata/2/ina/6B.COMB.seq:*
5: /EMC_Celerra_SIDS3/ptodata/2/ina/7.COMB.seq:*
6: /EMC_Celerra_SIDS3/ptodata/2/ina/H.COMB.seq:*
7: /EMC_Celerra_SIDS3/ptodata/2/ina/H.COMB.seq:*
8: /EMC_Celerra_SIDS3/ptodata/2/ina/PP.COMB.seq:*
9: /EMC_Celerra_SIDS3/ptodata/2/ina/RE.COMB.seq:*
10: /EMC_Celerra_SIDS3/ptodata/2/ina/backtillseq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1256.2	95.2	2135	US-09-016-434-1450	Sequence 1450, Ap
2	1256.2	95.2	2135	US-09-023-655-1469	Sequence 1469, Ap
3	1254.6	95.0	1419	US-09-826-509-468	Sequence 468, App
4	245.2	18.6	1790	US-09-016-434-1359	Sequence 1359, Ap
5	245.2	18.6	1790	US-09-023-655-1398	Sequence 1398, Ap
6	240.4	18.2	1083	US-09-826-509-470	Sequence 470, App
7	96.8	7.3	2250	US-08-763-938-1	Sequence 1, Appli
8	92.4	7.0	1434	US-09-016-434-1310	Sequence 1310, Ap
9	92.4	7.0	1434	US-07-969-267B-1	Sequence 1, Appli
10	92.4	7.0	1771	US-09-168-510-1	Sequence 1, Appli
11	92.4	7.0	1771	US-10-277-078-1	Sequence 1, Appli
12	90.8	6.9	1434	US-07-791-936A-1	Sequence 492, App
13	90.8	6.9	1673	US-08-383-781B-1	Sequence 1, Appli
14	90.8	6.9	1673	US-08-383-781B-1	Sequence 1, Appli
15	87	6.6	1535	US-09-964-956-14	Sequence 14, Appli
16	85.2	6.5	1621	US-08-722-001-13	Sequence 1172, Ap
17	85.2	6.5	2308	US-09-016-434-1172	Sequence 3, Appli
18	81.8	6.2	2308	US-07-686-591-3	Sequence 29, Appli
19	81.8	6.2	2308	US-07-970-715-3	Sequence 1, Appli
20	79.8	6.0	1776	US-08-722-001-29	Sequence 1, Appli
21	79.8	6.0	2140	US-08-334-698-1	Sequence 1, Appli
22	79.8	6.0	2140	US-08-228-932-1	Sequence 1, Appli
23	79.8	6.0	2140	US-08-468-939-1	Sequence 1, Appli

24	79.8	6.0	2140	US-08-406-855A-1	Sequence 1, Appli
25	79.8	6.0	2140	US-08-722-190-1	Sequence 1, Appli
26	79.8	6.0	2140	US-08-244-354-1	Sequence 1, Appli
27	79.8	6.0	2140	US-09-206-899-1	Sequence 1, Appli
28	79.8	6.0	2140	US-09-444-783-1	Sequence 1, Appli
29	79.8	6.0	2140	US-09-688-415-1	Sequence 1, Appli
30	79.8	6.0	2140	US-09-444-783-1	Sequence 1, Appli
31	79.8	6.0	2140	PCT-US95-04203-1	Sequence 1, Appli
32	78	5.9	1738	US-08-334-698-3	Sequence 1, Appli
33	78	5.9	1738	US-08-228-932-3	Sequence 3, Appli
34	78	5.9	1738	US-08-468-939-3	Sequence 3, Appli
35	78	5.9	1738	US-08-406-855A-3	Sequence 3, Appli
36	78	5.9	1738	US-08-722-190-3	Sequence 3, Appli
37	78	5.9	1738	US-08-244-354-3	Sequence 3, Appli
38	78	5.9	1738	US-09-206-899-3	Sequence 3, Appli
39	78	5.9	1738	US-09-444-783-3	Sequence 3, Appli
40	78	5.9	1738	US-09-688-415-3	Sequence 3, Appli
41	78	5.9	1738	US-09-016-434-1402	Sequence 1402, Ap
42	78	5.9	1738	US-09-444-783-3	Sequence 3, Appli
43	78	5.9	1738	PCT-US95-04203-3	Sequence 3, Appli
44	76.4	5.8	921	US-08-722-001-17	Sequence 17, Appli
45	76.4	5.8	1567	US-08-722-001-24	Sequence 24, Appli

ALIGNMENTS

RESULT 1
US-09-016-434-1450
Sequence 1450, Application US/09016434
Patent No. 6500938
GENERAL INFORMATION:
APPLICANT: Janice Au-Young
APPLICANT: Jeffrey J. Sealhamer
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
TITLE OF INVENTION: PATHWAY GENE EXPRESSION
NUMBER OF SEQUENCES: 1490
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 PORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
FILING DATE: US/09/016,434
FILING DATE: HERWITH
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0002 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 1450:
SEQUENCE CHARACTERISTICS:
LENGTH: 2135 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GENBANK
CLONE: g736236

Issued 12/31/02
7/30/98

US-09-016-434-1450

Query Match	95.2%;	Score 1256.2;	DB 3;	Length 2135;
Best Local Similarity	99.4%;	Pred. No. 8.3e-315;		
Matches 1261;	Conservative 0;	Mismatches 8;	Indels 0;	Gaps 0

QY	52	ACTGACCTCTGGGAAAGTCCCTTCCAAAGAAAGATGACTGGGGAGACAACTCCAGACTA	111
Db	242	ACTTCCTTTAGGGAAAGTCCCTTCCAAAGAAAGATGACTGGGGAGACAACTCCAGACTA	301
QY	112	GTCCACGACGACGAGGTGAACATTACAGAAATTTTACAAACAAGTCTCTCTGCTCTCAAG	171
Db	302	GTCCACGACGACGAGGTGAACATTACAGAAATTTTACAAACAAGTCTCTCTGCTCTCAAG	361
QY	172	GAGAAATGAGGAAACATCCAGGTGAGGGGGAACCTTACATGACATGAGGTTCATGGTC	231
Db	362	GAGAAATGAGGAAACATCCAGGTGAGGGGGAACCTTACATGACATGAGGTTCATGGTC	421
QY	232	CTGAACCCCAAGCCAGACGCTGGCCATTTGCAAGTCTGTGCTCCAGCTGAGCACTTTACG	291
Db	422	CTGAACCCCAAGCCAGACGCTGGCCATTTGCAAGTCTGTGCTCCAGCTGAGCACTTTACG	481
QY	282	GTCCGAGGAACCTCTGGGTGTGTGGCGTCAACCTCCACATCCCGAGCCTCGGCTCGAG	351
Db	482	GTCCGAGGAACCTCTGGGTGTGTGGCGTCAACCTCCACATCCCGAGCCTCGGCTCGAG	541
QY	352	CCCTTCCTACACTTCATCGGCAAGCTGCGAGTGGAGACCTTCTGAGGAGGTCAATTTT	411
Db	542	CCCTTCCTACACTTCATCGGCAAGCTGCGAGTGGAGACCTTCTGAGGAGGTCAATTTT	601
QY	412	GTCTACAGTTCACTGACTTCCAGCGTTTCCACCGCAAAAGATAGCGCAAGGTTCCTG	471
Db	602	GTCTACAGTTCACTGACTTCCAGCGTTTCCACCGCAAAAGATAGCGCAAGGTTCCTG	661
QY	472	TTCAAACTGGGGGTGCACTGGCCTTCACTGCTCCGTGGGCAAGCTGTCTTCACA	531
Db	662	TTCAAACTGGGGGTGCACTGGCCTTCACTGCTCCGTGGGCAAGCTGTCTTCACA	721
QY	532	GGCATCGACAGGTACATATCCATTTTCCACAGGCCCTCGCTATTAAGATTTCACCAAG	591
Db	722	GGCATCGACAGGTACATATCCATTTTCCACAGGCCCTCGCTATTAAGATTTCACCAAG	781
QY	592	CCCAAGGCGGTGGTAGCGTTTTCCTGATGTGGACCATAGCCATTGTGATTCGCGGTG	651
Db	782	CCCAAGGCGGTGGTAGCGTTTTCCTGATGTGGACCATAGCCATTGTGATTCGCGGTG	841
QY	652	CCTCTCTCTGGGTGGAACCTGCGAAGAACTGCAATCTGTTTGCTCAGACATTTTCCACAC	711
Db	842	CCTCTCTCTGGGTGGAACCTGCGAAGAACTGCAATCTGTTTGCTCAGACATTTTCCACAC	901
QY	712	ATTGATGAAACCTTACCTGATGTTCTGAGATCGGGGTCCACAGCGTACTGCTTCGTATC	771
Db	902	ATTGATGAAACCTTACCTGATGTTCTGAGATCGGGGTCCACAGCGTACTGCTTCGTATC	961
QY	772	GTGTATGCGTACATGATATTTCTTGGAAAGGTCCACAGCACCGCGTCCGCAATGATCG	831
Db	962	GTGTATGCGTACATGATATTTCTTGGAAAGGTCCACAGCACCGCGTCCGCAATGATCG	1021
QY	832	CGTGCACCCACAGAAGACATCAATCAACAGTCTGAGAGTGGAAAGGTACAGGTGACC	891
Db	1022	CGTGCACCCACAGAAGACATCAATCAACAGTCTGAGAGTGGAAAGGTACAGGTGACC	1081
QY	892	CGGCGCAGACCAAGCCCGCATGGAACATTAGATTAGCCAAACCTTGATCTGATCCTGGTG	951
Db	1082	CGGCGCAGACCAAGCCCGCATGGAACATTAGATTAGCCAAACCTTGATCTGATCCTGGTG	1141
QY	952	GTGTTGATCATCTGCTGGGGCCCTCTGCTGCAATCATGTGTATATATCTTTGGGAAG	1011
Db	1142	GTGTTGATCATCTGCTGGGGCCCTCTGCTGCAATCATGTGTATATATCTTTGGGAAG	1201
QY	1012	ATGAACACAGTCAATTAGAAGGTGTTGCAATTCGACGATAGTGTCTGCTGCTGAACCTCC	1071
Db	1202	ATGAACACAGTCAATTAGAAGGTGTTGCAATTCGACGATAGTGTCTGCTGCTGAACCTCC	1261

QY	1072	ACCGTGAACCCCATCATCTTATNGCTGTAGAGAGTGAAGACCTGGGACACAGCTTTCGGAGC	1131
Db	1262	ACCGGAACCCCATCATCTATATGCTCTAGAGAGTGAAGACCTGGGACACGCTTTCGGAGC	1321
QY	1132	ATGTTTCCCTCTTGTGAAGGACATGCGAGCTCTGTGATTAACAGATGGGGGACTTGGAC	1191
Db	1322	ATGTTTCCCTCTTGTGAAGGACATGCGAGCTCTGTGATTAACAGATGGGGGACTTGGAC	1381
QY	1192	TGCGTCGCAAAACACGGAAACAATGACAGCGATTTTCAACGGGGCGGAGAAAGCTGCATC	1251
Db	1382	TGCGTCGCAAAACACGGAAACAATGACAGCGATTTTCAACGGGGCGGAGAAAGCTGCATC	1441
QY	1252	AAGAGCAACGATCAAGATTGCCAAGTAAACAATGTCTGTGTCCACAGACAGCTTCCGAG	1311
Db	1442	AAGAGCAACGATCAAGATTGCCAAGTAAACAATGTCTGTGTCCACAGACAGCTTCCGAG	1501
QY	1312	GCTCTGTGA	1320
Db	1502	GCTCTGTGA	1510

RESULT 2
US-09-023-655-1469

; Sequence 1469, Application US/090236555
; Patent No. 6607879

```

; GENERAL INFORMATION:
;
; APPLICANT: Cocks, Benjamin G.

```

1 APPLICANT: Susan G. Stuart
 2 APPLICANT: Jeffrey J. Sellhammer
 3 TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
 4 TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
 5 TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
 6 NUMBER OF SEQUENCES: 1508
 7
 8 CORRESPONDENCE ADDRESS:
 9 ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
 10 STREET: 3174 PORTER DRIVE
 11 CITY: PALO ALTO
 12 STATE: CALIFORNIA
 13 COUNTRY: USA
 14
 15 ZIP: 94304
 16
 17 COMPUTER READABLE FORM:
 18 MEDIUM TYPE: Floppy disk
 19 COMPUTER: IBM PC compatible
 20 OPERATING SYSTEM: PC-DOS/MS-DOS
 21 SOFTWARE: word Perfect 6.1 for windows/MS-DOS 6.2

Query Match	95.2%;	Score 1256.2;	DB 3;	Length 2135;
Best Local Similarity	99.4%;	Pred. No. 8.3e-315;		

Matches 1261; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

```
QY 52 ACTGACCTCTGGAAGTCCCTTCCAGAGATGACTGGGAGAGCAACCCCAAGCTA 111
DB 242 ACTTCTTTAGGGAGAGTCCCTTCCAGAGAGATGACTGGGAGAGCAACCCCAAGCTA 301
QY 112 GTCCAGAGACCAAGGTGAACATTCAGAAATTTACACAAAGTCTCTGCTCTTCAAG 171
DB 302 GTCCAGAGACCAAGGTGAACATTCAGAAATTTACACAAAGTCTCTGCTCTTCAAG 361
QY 172 GAGAAATGAGAGAAACATTCAGATGAGGAGAACTTCAATGACATAGATGTTTCATGTC 231
DB 362 GAGAAATGAGAGAAACATTCAGATGAGGAGAACTTCAATGACATAGATGTTTCATGTC 421
QY 232 CTGAACCCCAAGCAGACAGCTGAGCTGAGTCCGTGCTGACAGCTGGGAGACTTCAAG 291
DB 422 CTGAACCCCAAGCAGACAGCTGAGCTGAGTCCGTGCTGACAGCTGGGAGACTTCAAG 481
QY 292 GTCTGAGAGAACCTCTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 351
DB 482 GTCTGAGAGAACCTCTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 541
QY 352 CTTCTCTTACCACTTATGAGGAGCCTGAGGAGGAGCCTCTGAGGAGTGTCTATTTT 411
DB 542 CTTCTCTTACCACTTATGAGGAGCCTGAGGAGGAGCCTCTGAGGAGTGTCTATTTT 601
QY 412 GTCTACAGCTTCACTTGAATTCACAGGTGTTCCACCGCAAGATAGCCGAGAGTGTCTG 471
DB 602 GTCTACAGCTTCACTTGAATTCACAGGTGTTCCACCGCAAGATAGCCGAGAGTGTCTG 661
QY 472 TTCAAACTGGGAGGAGTCAAGGCTCTTCACTGCTGCTGAGGAGCCTGTTCTTCA 531
DB 662 TTCAAACTGGGAGGAGTCAAGGCTCTTCACTGCTGCTGAGGAGCCTGTTCTTCA 721
QY 532 GCCATCGACAGGTACATTCATTCATTCACAGGCTGAGGAGGAGTGTCTGCTGCTG 591
DB 722 GCCATCGACAGGTACATTCATTCATTCACAGGCTGAGGAGGAGTGTCTGCTGCTG 781
QY 592 CCCAAGGCGGTGATGAGCTGTTTGGCTGATGAGGAGCCTAGCCATGATGATGAGGAG 651
DB 782 CCCAAGGCGGTGATGAGCTGTTTGGCTGATGAGGAGCCTAGCCATGATGATGAGGAG 841
QY 652 CCTCTCTGAGGCTGAGACCTGAGAGAACTGCAATCTGTTGCTGAGATTTTCCACAG 711
DB 842 CCTCTCTGAGGCTGAGACCTGAGAGAACTGCAATCTGTTGCTGAGATTTTCCACAG 901
QY 712 ATTGATGAACCTTACCTGATGTTGCTGAGTGGGAGTCAACAAGGTACTGCTTCTG 771
DB 902 ATTGATGAACCTTACCTGATGTTGCTGAGTGGGAGTCAACAAGGTACTGCTTCTG 961
QY 772 GTGATGAGGTACATGATTAATCTCTGAGAGGCTCAAGCCAGCGGTCCGATGATTTAG 831
DB 962 GTGATGAGGTACATGATTAATCTCTGAGAGGCTCAAGCCAGCGGTCCGATGATTTAG 1021
QY 832 CGTGGACCCCAAGAGGAGCATTCATTCACAGCTGAGAGTGGAGAGTACAGGTGAGC 891
DB 1022 CGTGGACCCCAAGAGGAGCATTCATTCACAGCTGAGAGTGGAGAGTACAGGTGAGC 1081
QY 892 CGGCGACAGCAAGCCGATGAGCATTAAGTTAGCCAAAGCCCTGCTGATCTGATGTC 951
DB 1082 CGGCGACAGCAAGCCGATGAGCATTAAGTTAGCCAAAGCCCTGCTGATCTGATGTC 1141
QY 952 GTGTTGATCATCTGAGGAGGCTCTGCTGAGCATCAAGGTGATGATGATGTTGGAGAG 1011
DB 1142 GTGTTGATCATCTGAGGAGGCTCTGCTGAGCATCAAGGTGATGATGATGTTGGAGAG 1201
QY 1012 ATGAACAAGCTCATTAAGACGAGTGTGCTGCTGAGATGCTCTGCTGCTGAGCTCC 1071
DB 1202 ATGAACAAGCTCATTAAGACGAGTGTGCTGCTGAGATGCTCTGCTGCTGAGCTCC 1261
QY 1072 ACCGTGAACCCCAATCATTCATGCTGAGAGTGAAGAGCTGCGACACGCTTTCGGAGC 1131
DB 1262 ACCGTGAACCCCAATCATTCATGCTGAGAGTGAAGAGCTGCGACACGCTTTCGGAGC 1321
```

```
QY 1132 ATGTTTCCCTCTGAGAGGCACTGCGACGCTTGSATPAAGAGATGGGGAGCTCGAC 1191
DB 1322 ATGTTTCCCTCTTGGAGAGCACTGCGACGCTTGSATPAAGAGATGGGGAGCTCGAC 1381
QY 1192 TGCCTGCAACAAACGCAACCAATGACAGCTGTTTCAAGGGCCGCAAGAAAGCTGATC 1251
DB 1382 TGCCTGCAACAAACGCAACCAATGACAGCTGTTTCAAGGGCCGCAAGAAAGCTGATC 1441
QY 1252 AAGAGCAGGTCAAGATTTGCCAAGGTAAACATGTCGTGTCCACAGACAGCTTCCGAG 1311
DB 1442 AAGAGCAGGTCAAGATTTGCCAAGGTAAACATGTCGTGTCCACAGACAGCTTCCGAG 1501
QY 1312 GCTCTGTGA 1320
DB 1502 GCTCTGTGA 1510
```

RESULT 3

```
US-09-826-509-468
; Sequence 468, Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
; FILE OF INVENTION: Protein-Coupled Receptors
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826,509
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: Patent Version 2.1
; SEQ ID NO 468
; LENGTH: 1419
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-509-468
```

Query Match 95.0%; Score 1254.6; DB 3; Length 1419;
Best Local Similarity 99.3%; Pred. No. 1.7e-314;
Matches 1260; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

```
QY 52 ACTGACCTCTGGAAGTCCCTTCCAGAGATGACTGGGAGAGCAACCCCAAGCTA 111
DB 151 ACTTCTTTAGGGAGAGTCCCTTCCAGAGAGATGACTGGGAGAGCAACCCCAAGCTA 210
QY 112 GTCCAGAGACCAAGGTGAACATTCAGAAATTTACACAAAGTCTCTGCTCTTCAAG 171
DB 211 GTCCAGAGACCAAGGTGAACATTCAGAAATTTACACAAAGTCTCTGCTCTTCAAG 270
QY 172 GAGAAATGAGAGAAACATTCAGATGAGGAGAACTTCAATGACATAGATGTTTCATGTC 231
DB 271 GAGAAATGAGAGAAACATTCAGATGAGGAGAACTTCAATGACATAGATGTTTCATGTC 330
QY 232 CTGAACCCCAAGCAGACAGCTGAGCTGAGTCCGTGCTGCTGCTGCTGCTGCTGCTGCTG 291
DB 331 CTGAACCCCAAGCAGACAGCTGAGCTGAGTCCGTGCTGCTGCTGCTGCTGCTGCTGCTG 390
QY 292 GTCTGAGAGAACCTCTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 351
DB 391 GTCTGAGAGAACCTCTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 450
QY 352 CTTCTCTTACCACTTATGAGGAGCCTGAGGAGGAGCCTCTGAGGAGTGTCTATTTT 411
DB 451 CTTCTCTTACCACTTATGAGGAGCCTGAGGAGGAGCCTCTGAGGAGTGTCTATTTT 510
QY 412 GTCTACAGCTTCACTTGAATTCACAGGTGTTCCACCGCAAGATAGCCGAGAGTGTCTG 471
```

Db 511 GTTACAGCTTCATTGACTTCACAGTGTTCACACGCGAAGATAGCCGCAAGCTGTTCTG 570
Qy 472 TTCAAACTGGGTGGGTCAAGGCTCTTCACTGCTCCGGGGCAAGCTGTTCTCA 531
Db 571 TTCAAACTGGGTGGGTCAAGGCTCTTCACTGCTCCGGGGCAAGCTGTTCTCA 630
Qy 532 GCGATCGACAGTACATATTCATTCACAGAGCCCGGCTTAAAGAGATTGTCAAG 591
Db 631 GCGATCGACAGTACATATTCATTCACAGAGCCCGGCTTAAAGAGATTGTCAAG 690
Qy 592 CCAAGGCGGTGTGAGCGTCTTGTGCTGATGTGACCATAGCCATTGTATGCGCGTGTG 651
Db 691 CCAAGGCGGTGTGAGCGTCTTGTGCTGATGTGACCATAGCCATTGTATGCGCGTGTG 750
Qy 652 CCTCTCTGGGCTGGAATCTGGAAGAACTGCAATCTGTTTGTCTGACATTTTCCACAC 711
Db 751 CCTCTCTGGGCTGGAATCTGGAAGAACTGCAATCTGTTTGTCTGACATTTTCCACAC 810
Qy 712 ATTGAATGAACCTACTGATGTGTGGAATCGGGGTCAAGGCTGCTGTTCTGATC 771
Db 811 ATTGAATGAACCTACTGATGTGTGGAATCGGGGTCAAGGCTGCTGTTCTGATC 870
Qy 772 GTGTATGCTATCATGTATATTTCTGTGAAGGCTCAAGCAAGCCGTCGATGATTCAG 831
Db 871 GTGTATGCTATCATGTATATTTCTGTGAAGGCTCAAGCAAGCCGTCGATGATTCAG 930
Qy 832 CGTGGCACCAGAGAGCATCATCTCAACAGCTGTGAGATGGAGAGTACAGGTGACC 891
Db 931 CGTGGCACCAGAGAGCATCATCTCAACAGCTGTGAGATGGAGAGTACAGGTGACC 990
Qy 892 CGGCGACAGCAAGCCCGCATGAGCAATTAGGTAGCAAGCCCGTCTGATCTGAGTG 951
Db 991 CGGCGACAGCAAGCCCGCATGAGCAATTAGGTAGCAAGCCCGTCTGATCTGAGTG 1050
Qy 952 GTGTGATCATCTGCTGGGCGCCCTGCTGTGCAATCATGTGTATGATCTTTGGGAG 1011
Db 1051 GTGTGATCATCTGCTGGGCGCCCTGCTGTGCAATCATGTGTATGATCTTTGGGAG 1110
Qy 1012 ATGAACAGCTCATTAAGCGGTGTTTGATCTTGCAATGCTGCTGCTGTAACCTC 1071
Db 1111 ATGAACAGCTCATTAAGCGGTGTTTGATCTTGCAATGCTGCTGCTGTAACCTC 1170
Qy 1072 ACCGGAACCCCATCATCTGATCTGAGAGATAGAGCACTGCAAGCCTTCCGAGC 1131
Db 1171 ACCGGAACCCCATCATCTGATCTGAGAGATAGAGCACTGCAAGCCTTCCGAGC 1230
Qy 1132 ATGTTTCCCTTGTGAAGGCACTGCGAGCCTGTGATTAACAGCATGGGAGCTCGAGC 1191
Db 1231 ATGTTTCCCTTGTGAAGGCACTGCGAGCCTGTGATTAACAGCATGGGAGCTCGAGC 1290
Qy 1192 TGCCTGCAAAACAGCAACATGATGAGGATTTCAAGGCGCGCAAAAGCTGATC 1251
Db 1291 TGCCTGCAAAACAGCAACATGATGAGGATTTCAAGGCGCGCAAAAGCTGATC 1350
Qy 1252 AAGAGCAGGTCAAGATTGCGAAGGTAACATGTCTGTGCAAGACAGCTGTCGAG 1311
Db 1351 AAGAGCAGGTCAAGATTGCGAAGGTAACATGTCTGTGCAAGACAGCTGTCGAG 1410
Qy 1312 GCTCTGTGA 1320
Db 1411 GCTCTGTGA 1419

RESULT 4

US-09-016-434-1359
; Sequence 1359, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HEREMITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1359:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1790 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: 9407806
; US-09-016-434-1359

Query Match 18.6%; Score 245.2; DB 3; Length 1790;
Best Local Similarity 55.9%; Pred. No. 2.3e-53;
Matches 537; Conservative 0; Mismatches 378; Indels 45; Gaps 2;

Qy 167 TCAAGAGAAATGAGAGAAATCCAGTGTGGGAGAACTTCATGACATAGATGTTTCA 226
Db 143 TGACAGAGATGCCAATGCGCTCCAAAGATGGCTTGATTCAAACCTATGAAGATTCA 202
Qy 227 TGTCTGAACCCAGCCAGCAGCTGSCATTCAGATCTGTCTCTCAAGCTGGGACCT 286
Db 203 TGATCTGATGATGCCCAAGAAAGCAGCTGTGTGTGTGTGCACTTCTGGGCGCTGC 262
Qy 287 TCAAGCTCTGAGAACTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 346
Db 263 TAAAGTCCCTGAGAACTGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 322
Qy 347 GCAAGCTTCTTACCACTTCATCGCAGCTGCGGAGTGGAGAGCACTCTCGGGAGTGTCA 406
Db 323 GGAAGCTCTATCTGCTGTATTTGACAGCTTGTGCTGGGAGTGTGCTCTCTGCGAGT 382
Qy 407 TTTTGTCTACAGCTTCATTAATTCAGATGTTTCAACCGCAAGATAGCCGCAAGCTGT 466
Db 383 TCTTTCATGACAGCTTGTGAATTTTCAATGTTTTCATGATGTGTGTGTGTGTGTGTGT 442
Qy 467 TTTTGTCTACAGCTTCATTAATTCAGATGTTTCAACCGCAAGATAGCCGCAAGCTGT 526
Db 443 TCTTTCATGACAGCTTGTGAATTTTCAATGTTTTCATGATGTGTGTGTGTGTGTGTGT 502
Qy 527 TCACAGCATGACAGTATATTCATTCACAGGCCCCCTGATTAAGAGATTTGCA 586
Db 503 TGACCGCATTTGACCGATACCTTGTGCTGCGGCTATTCACCTTCTGAAGAGCTGTCTCA 562
Qy 567 CCAAGCCCAAGGCGGTGTGAGCTTTTGTCTGATGTGACCAATGACATTTGTGATGCGCG 646
Db 563 CCGGTGAAGGCACTGTGTGACCTTGGGCAATCATGTGTGTGTGTGTGTGTGTGTGTGTGT 622

647 TGCTGCTCTCCGCGGCTGGAACTGCGAAGAACTGCAATCTGTTGCTCAGACATTTTCC 706
623 ACTGCGCCCTCAGGGATGAGCTTGCTGTCCAGGC-----CTGCTCTGAGCTTTTCC 676
707 CACACATTTGATGAAACCTACCTGATGTTCTGATTCGCGGGCTCACCAAGCTACTCTCTGT 766
677 CACTGATCCCAATGACTACTGCTGCTGAGCTGCTCTCTGTTCAATGCGCTTCTTTTCCG 736
767 TCATCTGTATGCGTACATGATATATTCTCTGAAAGGCTCACAGCAGCGCGTCCGATGA 826
737 GAATCATCTACACCTATGAGGCGATGTTCTCTGAAAGGCCCATCAGATGTCGACAGCTT-- 794
827 TTCAGGCTGACCCAGGAAGAGATCATATCAACGCTCTGAGATGGGAAGTACAG 886
795 -----GTCGCGCCACAGGACAGGCAAG 817
887 TGACCCGCGCAGACCAAGCCCGCATGAGCATTTAGCTTAGCAGACCTGTGCTGATCC 946
818 TGCCAGGAATGGCCCGAATGAGGCTGATGTAGAGTTGGCCAGACCTTAGAGGCTTAGTGT 877
947 TGGTGTGTTGATCATCTGCTGAGGCGCTCTGCTTGCAATCATGTGTATGATGTCCTTG 1006
878 TGGCTGTGCTCCTCATCTGTGGTTCAGAGTGTGCGCTCATGAGCCCAAGCCTGGCCA 937
1007 GGAAGATGAACAAGCTCATTAAGACGCTGTTTGATCTTGCAATGCTCTGCTGCTGTA 1066
938 CTACGCTCAGTACCAAGGTCAGAAAGGCTTGTCTTCTGCTCAGCTGCTGCTCATCA 997
1067 ACTCCACGCTGAACCCCATCATCTATGCTCTGAGAGTAAAGGACCTGGACAGCGCTTTC 1126
998 ACTCCATGATCAACCTGTACTATGCTCTTACGAGAGTGAAGATCCGCTCTGCTGCCC 1057

RESULT 5

US-09-023-655-1398

Sequence 1398, Application US/09023655

Patent No. 6607879

GENERAL INFORMATION:

APPLICANT: Cooke, Benjamin G.

APPLICANT: Susan G. Stuart

APPLICANT: Jeffrey J. Seilhamer

TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE

TITLE OF INVENTION: EXPRESSION

NUMBER OF SEQUENCES: 1508

CORRESPONDENCE ADDRESS:

ADDRESSER: INCYTE PHARMACEUTICALS, INC.

STREET: 3174 PORTER DRIVE

CITY: PALO ALTO

STATE: CALIFORNIA

COUNTRY: USA

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/023,655

FILING DATE: HEREWITH

CLASSIFICATION:

PRIOR APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Zeller, Karen J.

REGISTRATION NUMBER: 37,071

REFERENCE/DOCKET NUMBER: PA-0001 US

TELEPHONE: (650) 855-0555

TELEFAX: (650) 845-4166

INFORMATION FOR SEQ ID NO: 1398:

SEQUENCE CHARACTERISTICS:
LENGTH: 1790 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GENBANK
CLONE: 9407806
US-09-023-655-1398

Query Match 18.6%; Score 245.2; DB 3; Length 1790;
Best local similarity 55.9%; Pred. No. 2.3e-53;
Matches 537; Conservative 0; Mismatches 378; Indels 45; Gaps 2;

167 TCAAGAGATGAGAGAAATCCAGCTGTGGGAGAACTTCAATGACATAGATGTTTCA 226
143 TGACAGAGATGACCAATGAGCTTCCAGAGATGGCTTGATTCGAACCTTAGAAGATTACA 202
227 TGGTCTTGAACCCAGCCAGAGCTGGCCATTGCAAGTCTGTCTCTCAGCGTGGCACT 286
203 TGATCTGAGTGTCCCGAAGACAGCTGTGTCTGTGTGTGCACTCTTCTGGGCTTGC 262
287 TCAGGCTCTGAGAGACCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 346
263 TTAGTGTCTGTGAGAGACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 322
347 GAGGCGCTTCTTACCACTTCAATGAGCAGCTGGCGAGTGGCAGACCTCTGGAGATGTA 406
323 GGAAGCGCTCATACCTGTTCAATTTGAGAGCTTGGCGAGCTTGTGAGCTTGTGAGCTT 382
407 TTTTGTGTACAGCTTCAATTTGACTTTCAGCTGTTCACCGCAAGATAGCCGCAAGTGT 466
383 TCTTTGATGACGCTTGT 442
467 TTTGTGTAACTGGGATGGGATGACGAGCTCTTCACTGCTGCTGCTGCTGCTGCTGCTGCT 526
443 TCTGTGTGAAGATTGACGAGCTGATGATGACCTTTCACAGCTCTGTGTGTGTGTGTGTGT 502
527 TCACAGCCATGACAGTACATATTCATTCAAGGCGCTTGTGCTTATTAAGAGATTGTCA 586
503 TGACCGCATTTGACGATACCTCTGCGCGCTATTCACAGCTTCTTCAAGAGCTGTGCTCA 562
587 CAGGCGCCAGGCGCTGT 646
563 CCGGTGAAGGCGCATGT 622
647 TGCTGCTCTCTCTGGGCTGGAACCTGCGAAGAACTGCTGCTGCTGCTGCTGCTGCTGCT 706
623 ACTGCGCCCTCAGGGATGAGCTTGCTGTCCAGGC-----CTGCTCTGAGCTTTTCC 676
707 CACACATTTGATGAAACCTACCTGATGTTCTGATGCGGGCTCACAGCGTACTGCTTGT 766
677 CACTGATCCCAATGACTACTGCTGCTGAGCTGCTCTGTTCAATGCGCTTCTTTTCCG 736
767 TCATGCTGTATGCGTACATGATATATTCTCTGAAAGGCTTCAAGCGCGCTGCCATGA 826
737 GAATCATCTACACCTATGAGGATGTTCTCTGAAAGGCCCATCAGATGTGTGCACTT-- 794
827 TTCAGGCTGACCCAGGAAGAGCATATCCACAGCTGTGAGATGGGAAGTACAG 886
795 -----GTCGCGCCACAGGACAGGCAAG 817
887 TGACCCGCGCAGACCAAGCCCGCATGAGCATTTAGGTTAGCCAGACCTGTGCTGATCC 946
818 TGCCAGGAATGGCCCGAATGAGGCTGATGTAGAGTTGGCCAGACCTTAGAGGCTTAGTGT 877
947 TGGTGTGTTTATCATCTGCTGAGGCGCTCTGCTTGCAATCATGTGTATGATGTCCTTG 1006
878 TGGCTGTGCTCCTCATCTGTTGTGTTCCAGAGCTGAGCCCTATGAGCCCAAGCGCTGGCA 937
1007 GGAAGATGAACAAGCTCATTAAGACGCTGTTTGAATTTGAGATGCTGCTGCTGCTGTA 1066
938 CTACGCTAGTACCAAGTCAAGAGGCTTTGCTTCTGCTCAGTGTGTGCTCATCA 997

Qy 1067 ACTCCAGCGTAAGCCCATCATCTATGCTGAGGAGTAAGAGCTGGAGACGCTTCC 1126
Db 998 ACTCCATGCTCAACCTCTGTCTATGCTTACGAGAGTGAAGATCCGCTCTGCCC 1057

RESULT 6

US-09-826-509-470
; Sequence 470: Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Bruhnsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
; TITLE OF INVENTION: Protein-Coupled Receptors
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826,509
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 470
; LENGTH: 1083
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-509-470

Query Match 18.2% Score 240.4; DB 3; Length 1083;
Best Local Similarity 55.6%; Pred. No. 3.3e-52;
Matches 534; Conservative 0; Mismatches 381; Indels 45; Gaps 2;

Qy 167 TCAAGAGATGAGGAGAGAACTCCAGTGGGAGAACTTCATGACATAGAGTTC 226
Db 17 TGACAGATATGACCAATGAGCTTCAAGATGCTTGATTCGAACCTTATGAAGATTC 76
Qy 227 TGGTCTTGAACCCAGCCAGAGCTGGCTTGCAGTCTGCTCTTCCATCAGCTGGACCT 286
Db 77 TGATCTCTAGTGTGCTCCAGAGACAGCTGTGTGCTGTGTGCACTCTTCTGGGCTGAC 136
Qy 287 TCACGCTCTGAGAGAACTCTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 346
Db 137 TAAAGCCCTGAGAGACGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 196
Qy 347 GCAAGCCTTCTTACACCTTCACTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCT 406
Db 197 GGAAGCCTTCACTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 256
Qy 407 TTTTGTGTACAGCTTCACTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 466
Db 257 TCTTGTGATGAGCTTGTGTGATTTTCAATGTTTTCATGTGTGTGATTCGAAGCTGTCT 316
Qy 467 TTTTGTGAACTGAGTGGGCTGAGGCTCTTCACTGCTGTGCTGTGCTGTGCTGTGCTGT 526
Db 317 TCTGTGTAAGATTGAGAGCTGAGCTTCACTGAGCTTCTGTGAGTCTTCTGCTGCTGCT 376
Qy 527 TCACAGCATGACAGAGTATATTCATTCACAGGCTGCTGTGCTGTGCTGTGCTGTGCTGT 586
Db 377 TGACCGCATGACCGATACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 436
Qy 587 CCAAGCCCAAGGCTGTGAGGTTTGTGCTGTGATGTGACCAATACCATGTGATGCTGCTGCT 646
Db 437 CCGGTGAAGGCACTGTGTGAGCCCTGTGAGTATGTGCTTCTTCAACACATGATCTCTCT 496
Qy 647 TGCTGCTCTCTCTGCTGTGAGTCTGAGAACTGAGAACTGCTGTGCTGTGCTGTGCTGTGCT 706
Db 497 ACGTCCCTTCAATGAGATGAGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 550
Qy 707 CACACATTTGATGAACTTACCTGATGTTCTGTGATCGGGGTCAACGAGTATGCTTCTGT 766

Db 551 CACTGATCCCAATGACTTACCTGCTGAGCTGCTCTGTTTCATGCTGCTCTTTCCTG 610
Qy 767 TCACTGTATGCTATCATATTTCTGTGAGAGCTTCAAGCAAGCGCTCCGATGA 826
Db 611 GAATCATCTTACCACTTATGAGGATGTCTGTGAGAGGCCCAATGACATGTGCTGCTT- 668
Qy 827 TTCAGCGTGGACCCAGAGAGCATCATTCACAGCTGTGAGATGAGAGGTACAG 886
Db 669 -----GTCGGCCACAGACAGGAGG 691
Qy 887 TGACCCCGCAGACCAAGCCCGATGACATTTAGTTAGCCAGACCTGTGCTGATCC 946
Db 692 TGCCAGAAATGGCCGATGAGCTGATGAGGTGAGAAAGACCTTAGGCTTAGTGT 751
Qy 947 TGGTGTGTATATCATCTGCTGGGCTCTGCTTGTGCAATCATGTGTATGTCTTTG 1006
Db 752 TGGCTGTGCTCTCATCTGTGTGTTCCAGAGCTGGCCCTCATGACCCACAGCTGGCCA 811
Qy 1007 GGAAGATGAACAGCTCATTTAAGAGGTTTGTGATTCAGATGCTGCTGCTGCTGA 1066
Db 812 CTAGCTCAGAGACCAAGTCAAGAGGCTTGTCTTCTGCTCATGCTGTGCTCATCA 871
Qy 1067 ACTCCAGCGTAAGCCCATCATCTATGCTTGAAGAGTAAGAGCTTGGACAGCTTTCC 1126
Db 872 ACTCCATGCTCAACCTGTCTATGCTCTTACGAGTGAAGATCCGCTCTGCTGCC 931

RESULT 7

US-08-763-938-1
; Sequence 1, Application US/08763938
; Patent No. 6140060
; GENERAL INFORMATION:
; APPLICANT: CHUN, Jerold J.M.
; APPLICANT: HECHT, Jonathan H.
; TITLE OF INVENTION: CLONED LYSOPHOSPHATIDIC ACID
; TITLE OF INVENTION: RECEPTORS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESS: Nikaido, Marmelstein, Murray and Oram LLP
; STREET: 655 15th Street, N.W., Suite 330 - G St. Lobby
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-5701
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/763,938
; FILING DATE: 12-DEC-1996
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: JAHNS, Kristina M.
; REGISTRATION NUMBER: 41,092
; REFERENCE/DOCKET NUMBER: 88074-6018
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 638-5000
; TELEFAX: (202) 638-4810
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2250 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-763-938-1

Query Match 7.3% Score 96.8; DB 3; Length 2250;
Best Local Similarity 50.5%; Pred. No. 5.9e-15;
Matches 289; Conservative 0; Mismatches 277; Indels 6; Gaps 2;

FILING DATE: 05-OCT-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/551,448
FILING DATE: 10-JUL-1990
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 37526-A-PCT-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1771 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 140..1573
US-07-969-267B-1

Query Match 7.0%; Score 92.4; DB 2; Length 1771;

Best Local Similarity 51.4%; Pred. No. 7.4e-14;
Matches 213; Conservative 0; Mismatches 201; Indels 0; Gaps 0;

QY 247 CAGCTGACCATTCAGTCTGCTCCCTCAAGCTGGACCTTCACGCTCGGAGAACCTC 306
DB 257 CAGGTGTCACCGCTGCTGCTGTAACCTCATCATCTGAGACCTGCTGGGCAACGTG 316
QY 307 CTGTGCTGTGCTGCTCATCTTCACCTCCGCAAGCTTCCTGCTGAGGCTTCTTACCACTTC 366
DB 317 CTGTGCTGTGCTGCTCATCTTCACCTCCGCAAGCTTCCTGCTGAGGCTTCTTACCACTTC 376
QY 367 ATCCGACGCTGGGCGGTGGAGACCTCCCTGGGAGATGTCATTTTGTCTACAGCTTCATT 426
DB 377 ATCGTCTCTGGCCGTGTGACACCTTTTCGTGGGCTGCTGTGATCAAGCTTCGGAAGCA 436
QY 427 GACTTCACAGTGTTCACCGCAAGATAGCCGCAAGTGTTCCTGTTCAAACTGGGTGG 486
DB 437 GTCCGCGAGGTGGCGGTACTGAGCCCTTTGAGGGTTCTGAGAGTCTGGGTGGCTTC 496
QY 487 GTCACGCTCTCTTCACTGCTCTCGTGGAGCCTGTTCTTCAAGCATGACAGGTAC 546
DB 497 GACATCATGTGCTCCACTGCTCTCATCTGTAACCTGTGTGTCATGAGCGTGGACCGCTAC 556
QY 547 ATATCATTCACAGGCGCTGCTGCTATTAAGAGATTGTCAACAGGCCCAAGCGGTGTA 606
DB 557 TGGGCTCATCTCCAGGCGCTTCCGCTACAGCGCAAGATGATCTCAGGCGAGGCTTGGTC 616
QY 607 GCGTTTTCCTGATGTGACCATAGCATAGTGTGATGCTGCTGCTGCTCTCTG 660
DB 617 ATGTGCGCTGGATGAGCATCTGTCCATCTCATCTCTTCACTCCGCTCAG 670

RESULT 10
US-09-168-510-1
Sequence 1, Application US/09168510
Patent No. 6468767
GENERAL INFORMATION:
APPLICANT: Weinshank, Richard L.
TITLE OF INVENTION: DNA Encoding A Human Dopamine D1
TITLE OF INVENTION: Receptor And Uses Thereof
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York

STATE: New York
COUNTRY: U.S.A.
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/168,510
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/969,267
FILING DATE: 05-OCT-1993
APPLICATION NUMBER: 07/551,448
FILING DATE: 10-JUL-1990
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 37526-A-PCT-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1771 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 140..1573
US-09-168-510-1

Query Match 7.0%; Score 92.4; DB 3; Length 1771;

Best Local Similarity 51.4%; Pred. No. 7.4e-14;
Matches 213; Conservative 0; Mismatches 201; Indels 0; Gaps 0;

QY 247 CAGCTGACCATTCAGTCTGCTCCCTCAAGCTGGACCTTCACGCTCGGAGAACCTC 306
DB 257 CAGGTGTCACCGCTGCTGCTGTAACCTCATCATCTGAGACCTGCTGGGCAACGTG 316
QY 307 CTGTGCTGTGCTGCTCATCTTCACCTCCGCAAGCTTCCTGCTGAGGCTTCTTACCACTTC 366
DB 317 CTGTGCTGTGCTGCTCATCTTCACCTCCGCAAGCTTCCTGCTGAGGCTTCTTACCACTTC 376
QY 367 ATCCGACGCTGGGCGGTGGAGACCTCCCTGGGAGATGTCATTTTGTCTACAGCTTCATT 426
DB 377 ATCGTCTCTGGCCGTGTGACACCTTTTCGTGGGCTGCTGTGATCAAGCTTCGGAAGCA 436
QY 427 GACTTCACAGTGTTCACCGCAAGATAGCCGCAAGTGTTCCTGTTCAAACTGGGTGG 486
DB 437 GTCCGCGAGGTGGCGGTACTGAGCCCTTTGAGGGTTCTGAGAGTCTGGGTGGCTTC 496
QY 487 GTCACGCTCTCTTCACTGCTCTCGTGGAGCCTGTTCTTCAAGCATGACAGGTAC 546
DB 497 GACATCATGTGCTCCACTGCTCTCATCTGTAACCTGTGTGTCATGAGCGTGGACCGCTAC 556
QY 547 ATATCATTCACAGGCGCTGCTGCTATTAAGAGATTGTCAACAGGCCCAAGCGGTGTA 606
DB 557 TGGGCTCATCTCCAGGCGCTTCCGCTACAGCGCAAGATGATCTCAGGCGAGGCTTGGTC 616
QY 607 GCGTTTTCCTGATGTGACCATAGCATAGTGTGATGCTGCTGCTGCTCTCTG 660
DB 617 ATGTGCGCTGGATGAGCATCTGTCCATCTCATCTCTTCACTCCGCTCAG 670

RESULT 11
US-10-277-078-1

Sequence 1, Application US/10277078
Patent No. 6939680
GENERAL INFORMATION:
APPLICANT: Weisshank, Richard L.
Hartig, Paul R.
TITLE OF INVENTION: DNA Encoding A Human Dopamine D1
Receptor And Uses Thereof
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/277,078
FILING DATE: 21-Oct-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/168,510
FILING DATE: <Unknown>
APPLICATION NUMBER: 07/969,267
FILING DATE: 05-Oct-1993
APPLICATION NUMBER: 07/551,448
FILING DATE: 10-Jul-1990
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 37526-A-PCT-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1771 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULAR TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 140..1573
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-277-078-1
Query Match 7.0%; Score 92.4; DB 3; Length 1771;
Best Local Similarity 51.4%; Pred. No. 7.4e-14;
Matches 213; Conservative 0; Mismatches 201; Indels 0; Gaps 0;

QY 247 CAGTGGCCATTGACAGTCTGCTCCCTCAACGCTGGGACCTTCACGCTCTGGAGAACCTC 306
DB 257 CAGGTGTACACCGCTGCTGCTGACCTCACTCATCTGGAACCTGCGGCAACGTCG 316
QY 307 CTGGTGTGTGCTGCTCATCTCCATCCCGGACGCTCCGCTGAGAGCCTTCTCAACACTTC 366
DB 317 CTGGTGTGCGACGACCTGTGTGGAGCGGCACTGGCGGCGCAACATGACCAACGCTTTC 376
QY 367 ATCGGACAGCTGGCGGTGGAGAGACTCTGGGAGAGTCAATTTTGTCTACAGCTTCAAT 426
DB 377 ATCGTGTCTGGCGGCTGTCAAGCTTTTGTGGGCGCTGCTGTATGACCTCTGGAGGCA 436
QY 427 GACTTCACAGGTGTTCACCGCAAGATAGCGCAACGTGTTTCTGTTCAAACTGGGTGGG 486
DB 437 GTCCGCGAGGTGGCGGTGTACTGCGCTTTGGAGGCTTCTGAGAGCTGTGGGTGGCCTTC 496

QY 487 GTACAGGCTCTCTTCACTGCTCCGTGGGACGCTGTTCTCAACAGCCATCGACAGTAC 546
DB 497 GACATCATGTGTCCACATGCTCTTCATCCGAACCTGTGGTATCATAGCTGGAACGCTAC 556
QY 547 ATATCATTCACAGGCGCTTGGCTTATTAAGAGATTGTCAACAGGCCCAAGCGCTGTGA 606
DB 557 TGGGCATCTCCAGGCGCTTCCGCTAACAGCGCAAGATGATCAAGCGCATGGCCTTGGTC 616
QY 607 GCGTTTGGCTGATGTGACCAATAGCATTTGATCGCGCTGCTCTCTG 660
DB 617 ATGTGGGCTGGAGATGAACTTGTTCATCTTCATCTCTTCAATTCGGTTCAG 670

RESULT 12
US-09-826-509-492
Sequence 492, Application US/09826509
Patent No. 6806054
GENERAL INFORMATION:
APPLICANT: Lehmann-Brunsmma, Karin
APPLICANT: Liaw, Chen W.
APPLICANT: Lin, I-Lin
TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
PROTEIN REFERENCE: AREN-207
FILE REFERENCE: AREN-207
CURRENT APPLICATION NUMBER: US/09/826,509
PRIOR FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: 60/195,747
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: 09/170,496
PRIOR FILING DATE: 1998-10-13
NUMBER OF SEQ ID NOS: 589
SOFTWARE: PatentIn Version 2.1
SEQ ID NO 492
LENGTH: 1434
TYPE: DNA
ORGANISM: Homo sapiens
US-09-826-509-492
Query Match 6.9%; Score 90.8; DB 3; Length 1434;
Best Local Similarity 51.2%; Pred. No. 1.8e-13;
Matches 212; Conservative 0; Mismatches 202; Indels 0; Gaps 0;

QY 247 CAGTGGCCATTGACAGTCTGCTCCCTCAACGCTGGGACCTTCACGCTCTGGAGAACCTC 306
DB 118 CAGGTGTACACCGCTGCTGCTGTAACCTCACTCATCTGGAACCTGCGGCAACGTCG 177
QY 307 CTGGTGTGTGCTGCTCATCTCCATCCCGACGCTCCGCTGAGAGCCTTCTCAACACTTC 366
DB 178 CTGGTGTGCGACGACCTGTGTGGAGCGGCAACCTGCGGCGCAACATGACCAACGCTTTC 237
QY 367 ATCGGACAGCTGGCGGTGGAGAGACTCTGGGAGAGTCAATTTTGTCTACAGCTTCAAT 426
DB 238 ATCGTGTCTGGCGGCTGTGACCTTTTCGTGGGCGCTGTGTATGACCTCTGGAGAGCA 297
QY 427 GACTTCACAGGTGTTCACCGCAAGATAGCGCAACGTTTCTGTCTAACTGGGTGGG 486
DB 298 GTCCGCGAGGTGGCGGTGTACTGCGCTTTGGAAGGTTCTGCAAGCTGTGGGTGGCCTTC 357
QY 487 GTACAGGCTCTCTTCACTGCTCCGTGGGAGCGCTGTTCTCAACAGCCATCGACAGGTAC 546
DB 358 GACATCATGTGTCCACATGCTCTTCATCTGAACCTGTGGCTATCAAGCTGAGCGCTAC 417
QY 547 ATATCATTCACAGGCGCTTGGCTTATTAAGAGATTGTCAACAGGCCCAAGCGCTGTGA 606
DB 418 TGGGCATCTCCAGGCGCTTCCGCTAACAGCGCAAGATGATCAAGCGCATGGCCTTGGTC 477
QY 607 GCGTTTGGCTGATGTGACCAATAGCATTTGATCGCGCTGCTCTCTCTG 660
DB 478 ATGTGGGCTGGAGATGAACTTGTTCATCTCTTCAATTCGGTTCAG 531

RESULT 13
US-07-791-936A-1

Sequence 1, Application US/07791936A
Patent No. 5427942
GENERAL INFORMATION:
APPLICANT: Civeili, Olivier
APPLICANT: Grandy, David K
TITLE OF INVENTION: A No. 5427942el Human Dopamine Receptor Gene and
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Allegretti & Witcoff, Ltd.
STREET: 10 South Wacker Drive, Suite 3000
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/791,936A
FILING DATE: 19911113
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Macdonnell, John J
REGISTRATION NUMBER: 26,949
REFERENCE/DOCKET NUMBER: 91,619
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-715-1000
TELEFAX: 312-715-1234
TELEX: 910-221-5317
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1673 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 148..1578
US-07-791-936A-1

Query Match 6.9%; Score 90.8; DB 2; Length 1673;
Best Local Similarity 51.2%; Pred. No. 1.9e-13;
Matches 212; Conservative 0; Mismatches 202; Indels 0; Gaps 0;

247 CAGCTGGCATTGACAGTCTGTCCCTCAAGCTGGGACCTTCAAGGATCGGAGAACTTC 306
265 CAGGTGTGACCGCTGCTGTGACCTCACTCATCTGAGACCTGCTGGGCAACGTG 324
307 CTGTGCTGTGCGTATCTCTCACTCCGACGCTTCCGCTGAGGCTTCTTACCACTTC 366
325 CTGGTGTGCGAGCATGTGCGAGCGGCACTGCGGCAATGACCAACGCTTTC 384
367 ATTCGACAGCTGGGGGTGGAGACCTCCGCGGAGATGTCATTTTGTCTAAGCTTCAAT 426
385 ATCGTGTCTGTGGCGGTGTGACCTTTTGTGGCGCTGCTGTGATGCTTGGAAAGCA 444
427 GACTTCACAGTGTTCACCGCAAGATAGCCCAAGTGTTCGTGTCAAACTGGGTGGG 486
445 GTTCGCGAGGTGGCGGTATCTGAGGCTTTGAGAGGTTCTGAGAGTCTGGGTGCTTC 504
487 GTCAAGGCTCTCTTCACTGCTCTCGGTGGGAGCTGTGTTCTTCAAGCACTGACAGTAC 546
505 GACATCATGTGTCTCACTGCTCTCACTTCACTGAACTGTGTGTCATGAGCGTGAACGCTAC 564
547 ATATCATTTCAAGGCGCTGAGCTTATAGAGGATTTGACAGAGGCGCAAGCGGTGTA 606
565 TGGGCAATCTCCAGGCGCTTCCGCTACAAAGCGCAAGATGATGACAGCGGACCTTGGTC 624
607 GCGTTTGTGCTGATGTGACCATGACATGATGATGACCGTGTCTCTCTG 660

DB 625 ATGCTCGCCCTGGAGTGAACCTTGTCACTCTCATCTTCACTTCCGATCCAG 678

RESULT 14
US-08-383-781B-1
Sequence 1, Application US/08383781B
Patent No. 5686573
GENERAL INFORMATION:
APPLICANT: Civeili, Olivier
APPLICANT: Grandy, David K
TITLE OF INVENTION: A No. 5686573el Human Dopamine Receptor Gene and
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff
STREET: 300 South Wacker
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/383,781B
FILING DATE: 06-FEB-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: No. 5686573nan, Kevin E
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 91,619-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0002
TELEFAX: 312-913-0001
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1673 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHEICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 148..1578
US-08-383-781B-1

Query Match 6.9%; Score 90.8; DB 2; Length 1673;
Best Local Similarity 51.2%; Pred. No. 1.9e-13;
Matches 212; Conservative 0; Mismatches 202; Indels 0; Gaps 0;

247 CAGCTGGCATTGACAGTCTGTCCCTCAAGCTGGGACCTTCAAGGATCGGAGAACTTC 306
265 CAGGTGTGACCGCTGCTGTGACCTCACTCATCTGAGACCTGCTGGGCAACGTG 324
307 CTGTGCTGTGCGTATCTCTCACTCCGACGCTTCCGCTGAGGCTTCTTACCACTTC 366
325 CTGGTGTGCGAGCATGTGCGAGCGGCACTGCGGCAATGACCAACGCTTTC 384
367 ATTCGACAGCTGGGGGTGGAGACCTCCGCGGAGATGTCATTTTGTCTAAGCTTCAAT 426
385 ATCGTGTCTGTGGCGGTGTGACCTTTTGTGGCGCTGCTGTGATGCTTGGAAAGCA 444
427 GACTTCACAGTGTTCACCGCAAGATAGCCCAAGTGTTCGTGTCAAACTGGGTGGG 486
445 GTTCGCGAGGTGGCGGTATCTGAGGCTTTGAGAGGTTCTGAGAGTCTGGGTGCTTC 504
487 GTCAAGGCTCTCTTCACTGCTCTCGGTGGGAGCTGTGTTCTTCAAGCACTGACAGTAC 546

Db 505 GACATCATGTGCTCACTGCTCCATCTGAACTGTGCGTCATCAGCGGACCGCTAC 564
QY 547 ATATCATTTCAAGGGCCCTCGGCTTATTAAGAGATTGTCAACGAGCCCAAGCCGTGTA 606
Db 565 TGGGCATCTCCAGGCTCTTCGCTTCAAGCCGCAATGACTCAGGCGCATGCGCTTGTGTC 624
QY 607 GCGTTTTCCTGATGTGACCAATAGCCATTGTGATGCGCGTGTGCTTCTCTG 660
Db 625 ATGTGCGGCTCGACATGACCTTGTCAATCTCATCTCTTCACTTCCGCTCAG 678

RESULT 15

US-09-964-956-14
Sequence 14, Application US/09964956
Patent No. 6875570

GENERAL INFORMATION:

APPLICANT: Gerlach, Valerie L
APPLICANT: MacDougall, John R
APPLICANT: Smithson, Glenda
APPLICANT: Millet, Isabelle
APPLICANT: Stone, David
APPLICANT: Gunther, Erik
APPLICANT: Ellerman, Karen
APPLICANT: Grosse, William M
APPLICANT: Alsebrook II, John P
APPLICANT: Lepley, Denise M
APPLICANT: Burgess, Catherine E
APPLICANT: Padigaru, Muralidhara
APPLICANT: Kekuda, Ramesh
APPLICANT: Spytek, Kimberly A
APPLICANT: Leach, Martin D
APPLICANT: Shinkels, Richard A
TITLE OF INVENTION: No. 6875570el Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-124
CURRENT APPLICATION NUMBER: US/09/964,956
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 60/235,631
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,633
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,808
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,064
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,065
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,066
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,135
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: 60/237,434
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/238,321
PRIOR FILING DATE: 2000-10-05
PRIOR APPLICATION NUMBER: 60/238,399
PRIOR FILING DATE: 2000-10-06
PRIOR APPLICATION NUMBER: 60/238,396
PRIOR FILING DATE: 2000-10-06
PRIOR APPLICATION NUMBER: 60/276,667
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/294,823
PRIOR FILING DATE: 2001-05-31
PRIOR APPLICATION NUMBER: 60/304,868
PRIOR FILING DATE: 2001-07-12
NUMBER OF SEQ ID NOS: 127
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 14
LENGTH: 1535
TYPE: DNA
ORGANISM: Homo sapiens
US-09-964-956-14

Query Match 6.6%; Score 87; DB 3; Length 1535;

Best Local Similarity 50.6%; Pred. No. 1,8e-12;
Matches 210; Conservative 0; Mismatches 205; Indels 0; Gaps 0;

QY 246 GCAAGTGGCCATTGACAGTCTGTCTCTCAAGCTGGGACCTTCAACGCTGTGAGAACCT 305
Db 123 GCAAGTGTGACACCGCTGTCTGTGACCTTCTGTGATCTGTGAGAACCTGTGGGACCT 182
QY 306 CCGTGTGCTGTGAGTCTCTCACTCCCGGACCTTCCGCTGAGGCTTCTCAACCTT 365
Db 183 GCTGTGTCCGACGACATGTGTGAGCCGACCACTGCGCGGCAATGACCAACCTCTT 242
QY 366 CATCGGACGCTGGCGGTGACAGCTCTGGGAGTGTATTTTGTCAAGCTTCAAT 425
Db 243 CATCTGTCTTCACTGTCTGTGACCTTCTGTGGGCTGTGTGATCTCTGGAAGC 302
QY 426 TGACTTCAAGTGTTCACCGCAAGATAGCCGACAGTGTTCGTTCAACTGGGTG 485
Db 303 AGTCCGCAAGTGTGCGGTTACTGGCCCTTTGAAGGTTCTGCGAAGTGTGGTGGCTT 362
QY 486 GGTCAAGGCTCTTCACTGCTCCGTGGGACGCTGTCTTCAAGCCATGACAGGTA 545
Db 363 CGACATCATGTGCTCACCGCTCTCATCTGTGAACCTGTGCGGTATCATGCGGTG 422
QY 546 CATATCATTTACAGGCGCCGCTATTAAGAGATTGTCAACGAGCCCAAGCCGTGGT 605
Db 423 CTGGGCACTTCAAGGCTCTTCCGCTACAGGCGCAAGATGACCAAGCGATGAGCTTGGT 482
QY 606 AGCGTTTTCCTGATGTGACCATAGCCATTGTGATGCGCGTGTGCTCTCTCTG 660
Db 483 CATGTGCGCGCGGCTGAGACTTGTCAAGCTTCACTCTTCACTTCCGGTCCAG 537

Search completed: June 16, 2006, 23:52:28
Job time : 291 secs

THIS PAGE BLANK (usep10)

GenCore version 5.1.9
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 16, 2006, 23:29:54 ; Search time 7778 Seconds
(without alignments/sec
10852.481 Million cell updates/sec

Title: US-10-521-428A-1

Perfect score: 1320
Sequence: 1 atgaagtcgacccctagatcgtg.....cgtccgcgagcgtctgtga 1320

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 6366136 seqs, 31973710525 residues

Total number of hits satisfying chosen parameters: 12732272

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl:*
1: gb_env:*
2: gb_pat:*
3: gb_ph:*
4: gb_pl:*
5: gb_pr:*
6: gb_ro:*
7: gb_scs:*
8: gb_sy:*
9: gb_uni:*
10: gb_vl:*
11: gb_ov:*
12: gb_hvg:*
13: gb_in:*
14: gb_om:*
15: gb_da:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1320	100.0	1320	2	CQ768746 Sequence
2	1320	100.0	1320	5	AY766182 Homo sapi
3	1259.4	95.4	5665	2	CS242372 Sequence
4	1259.4	95.4	5665	2	AX658255 Sequence
5	1259.4	95.4	5665	2	AX658255 Sequence
6	1259.4	95.4	5665	2	AX658255 Sequence
7	1257.8	95.3	1419	5	AY225225 Homo sapi
8	1257.8	95.3	1419	5	AY225225 Homo sapi
9	1257.8	95.3	1419	5	BC100968 Homo sapi
10	1257.8	95.3	1492	5	BC074811 Homo sapi
11	1257.8	95.3	1492	5	BC074811 Homo sapi
12	1257.8	95.3	1631	2	CQ725118 Sequence
13	1257.8	95.3	1755	2	CS207294 Sequence
14	1257.8	95.3	1755	2	AX548798 Sequence
15	1257.8	95.3	1755	2	AX548798 Sequence
16	1257.8	95.3	5480	2	CS115070 Sequence
17	1257.8	95.3	5480	2	DD187125 Novel tar
18	1257.8	95.3	112212	5	AL136096 Human DNA

19	1256.2	95.2	1419	2	CQ768994 Sequence
20	1256.2	95.2	1419	2	CQ768995 Sequence
21	1256.2	95.2	1419	5	BC100970 Homo sapi
22	1256.2	95.2	1419	5	BC100971 Homo sapi
23	1256.2	95.2	1419	5	DQ067455 Homo sapi
24	1256.2	95.2	2135	2	DD210209 Methods o
25	1256.2	95.2	2135	2	AR270887 Sequence
26	1256.2	95.2	2135	2	AR380924 Sequence
27	1256.2	95.2	2135	5	HSCANN6
28	1256.2	95.2	2135	7	G28592
29	1254.6	95.0	1419	2	CQ768996 Sequence
30	1254.6	95.0	1419	2	AR591295 Sequence
31	1254.6	95.0	1419	2	AX280845 Sequence
32	1251.4	94.8	1443	5	AP107262 Homo sapi
33	1249.8	94.7	1419	5	AY995204 Homo sapi
34	1248.2	94.6	1419	5	AY665255 Pan trogl
35	1247.8	94.5	1415	5	BC095513 Homo sapi
36	1229	93.1	1419	5	AF286025 Macaca mu
37	1151	87.2	1252	2	CS115071 Sequence
38	1151	87.2	1252	2	DD187126 Novel tar
39	1151	87.2	1252	5	HSCB1A
40	1079.8	81.8	1419	14	FCU94342
41	1077.4	81.6	2370	2	CQ947138 Sequence
42	1052.8	79.8	1459	6	MMU17985
43	1049.6	79.5	5465	6	RNSKRER
44	1048	79.4	1422	6	AF153345 Mus muscu
45	1048	79.4	1422	6	MMU40709 Mus musculu

ALIGNMENTS

RESULT 1	CQ768746	1320 bp	DNA	linear	PAT 04-MAR-2004
LOCUS	CQ768746	Sequence 1 from Patent WO200407551.			
DEFINITION	CQ768746				
ACCESSION	CQ768746.1	GI:45111938			
VERSION					
KEYWORDS					
SOURCE					
ORGANISM	Homo sapiens (human)				
REFERENCE	Vu, H.K., Groblewski, T. and Greasley, P.				
AUTHORS	Splice variant cannabinoid receptor (cb1b)				
TITLE	Parent: WO 2004007551-A 1 22-JAN-2004;				
JOURNML	Astrazeneca AB (SE)				
FEATURES	Location/Qualifiers				
source	1..1320				
ORIGIN	1..1320				
Query Match	100.0%; Score 1320; DB 2; Length 1320;				
Best Local Similarity	100.0%; Pred. No. 0;				
Matches 1320; Conservative	0; Mismatches 0; Indels 0; Gaps 0;				
Qy	1 ATGAAGTGCATTCAGATGCGCTTCGACATGCCACCTTCGACACCATACCACTGACCTC 60				
Db	1 ATGAAGTGCATTCAGATGCGCTTCGACATGCCACCTTCGACACCATACCACTGACCTC 60				
Qy	61 CTGGAGAGTCCCTCCCAAGAGATGCTCGGGAGACCAACCCAGCTAGTCCACGACA 120				
Db	61 CTGGAGAGTCCCTCCCAAGAGATGCTCGGGAGACCAACCCAGCTAGTCCACGACA 120				
Qy	121 GACCAAGTGAACATTATTAAGATTTTAAACAAGTCTCTGCTGCTTCAAGAGATGAG 180				
Db	121 GACCAAGTGAACATTATTAAGATTTTAAACAAGTCTCTGCTGCTTCAAGAGATGAG 180				
Qy	181 GAGCAATCCAGTGTGGGAGAACTTCAATGACATAGAGTTCATAGTGTCTTGAACCCC 240				

Db	181	GAGAACATCCAGTGTGGGAGAACTTCATGACATAGATGTTTCATGTCTTGAACCCC	240
Qy	241	AGCCGACAGCTGGCCATTGGACGTCTGTCCCTCACGCTGGGACCTTACGGTCTGGAG	300
Db	241	AGCCGACAGCTGGCCATTGGACGTCTGTCCCTCACGCTGGGACCTTACGGTCTGGAG	300
Qy	301	AACCTCTGTGTGTGTGTGTATCTCTCCATCTCCGCAAGCTTCCGTGACAGGCTTCTAC	360
Db	301	AACCTCTGTGTGTGTGTGTATCTCTCCATCTCCGCAAGCTTCCGTGACAGGCTTCTAC	360
Qy	361	CACCTCATCGGACGCTGGCGGAGCACTCCGCGGAGGTCAATTTGTCTACAGC	420
Db	361	CACCTCATCGGACGCTGGCGGAGCACTCCGCGGAGGTCAATTTGTCTACAGC	420
Qy	421	TTCAATTGACTTCACGTGTTCACCGCAAGAATAGCCGACAGTGTTCGTCTAAACTG	480
Db	421	TTCAATTGACTTCACGTGTTCACCGCAAGAATAGCCGACAGTGTTCGTCTAAACTG	480
Qy	481	GGTGGGGGTCACGGCTCTTCACTGCTCCGTGGGAGCTGTGTCTCACAGCCATCGAC	540
Db	481	GGTGGGGGTCACGGCTCTTCACTGCTCCGTGGGAGCTGTGTCTCACAGCCATCGAC	540
Qy	541	AGGTACATATCCATTCACAGGCCCTGGGCTTAAAGGATTTGTACACAGGCCAAAGGC	600
Db	541	AGGTACATATCCATTCACAGGCCCTGGGCTTAAAGGATTTGTACACAGGCCAAAGGC	600
Qy	601	GTTGTAGCGTTTGGCTGATGTGACCAATAGCCATGTATGCGCGTGCCTCTCTG	660
Db	601	GTTGTAGCGTTTGGCTGATGTGACCAATAGCCATGTATGCGCGTGCCTCTCTG	660
Qy	661	GGCTGGAACTGGGAGAACTGCAATCTGTTGCTCAGACATTTTCCACACATTTAGAA	720
Db	661	GGCTGGAACTGGGAGAACTGCAATCTGTTGCTCAGACATTTTCCACACATTTAGAA	720
Qy	721	ACCTACCTGATTTCTGATTTGGGGGTACACAGCTATCTGCTTCTGTATCGGTATGG	780
Db	721	ACCTACCTGATTTCTGATTTGGGGGTACACAGCTATCTGCTTCTGTATCGGTATGG	780
Qy	781	TACATGTATATCTCTGGAAGGCTCACAGCCACGCGTACGATGATCAGCGTGGACCC	840
Db	781	TACATGTATATCTCTGGAAGGCTCACAGCCACGCGTACGATGATCAGCGTGGACCC	840
Qy	841	CAGAAAGAGCATCATCCACAGTCTGAGAGTGGAAAGTACAGGTGACCCGGCCAGAC	900
Db	841	CAGAAAGAGCATCATCCACAGTCTGAGAGTGGAAAGTACAGGTGACCCGGCCAGAC	900
Qy	901	CAGGCCGATAGCAATTAGGTTAGCAAGCCCTGTCTTATCTGTGTGTGTGATC	960
Db	901	CAGGCCGATAGCAATTAGGTTAGCAAGCCCTGTCTTATCTGTGTGTGTGATC	960
Qy	961	ATCTGCTGGGGCCCTCTGCTTGCAATCAGGTATGATGTCTTTGGGAAGTAAACAAG	1020
Db	961	ATCTGCTGGGGCCCTCTGCTTGCAATCAGGTATGATGTCTTTGGGAAGTAAACAAG	1020
Qy	1021	CTCATTTAAGACGGTGTTCATTCTGACAGTATGCTCTGCTGTGAACCTCACCCGTGAAC	1080
Db	1021	CTCATTTAAGACGGTGTTCATTCTGACAGTATGCTCTGCTGTGAACCTCACCCGTGAAC	1080
Qy	1081	CCCATCATCTATGCTCTGAGAGTAAAGACCTGCGACACGCTTTCCGAGCATGTTTCCC	1140
Db	1081	CCCATCATCTATGCTCTGAGAGTAAAGACCTGCGACACGCTTTCCGAGCATGTTTCCC	1140
Qy	1141	TCTTGTGAAGGACATGCGAGGCTCGAGTAAACAGATGGGGGACCTCGACCTGCGAC	1200
Db	1141	TCTTGTGAAGGACATGCGAGGCTCGAGTAAACAGATGGGGGACCTCGACCTGCGAC	1200
Qy	1201	AAACACGCAAAATATGACCACTGATTTCAACGGGCGCGAGAAAGCTGCATCAAGACAG	1260
Db	1201	AAACACGCAAAATATGACCACTGATTTCAACGGGCGCGAGAAAGCTGCATCAAGACAG	1260
Qy	1261	GTCAAAGATTGCCAAGGTAACTATCTGTGTCCACAGACAGTCTGCCAGAGCTCTGTGA	1320

Db	1261	GTCAAGATTGCCAAGTAAACCATATGTCGTGTCCACAGACAGACAGCTGCGGAGGCTCTGTGCA	1320 bp mRNA linear PRI 03-JAN-2005
RESULT 2	AY766182	1320 bp	
LOCUS	AY766182		
DEFINITION	Homo sapiens cannabinoid receptor 1 splice variant CB1b mRNA, complete cds, alternatively spliced.		
ACCESSION	AY766182		
VERSION	AY766182.1	GI:54609769	
KEYWORDS			
SOURCE			
ORGANISM	Homo sapiens (human)		
	Homo sapiens		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homiidae; Homo.		
REFERENCE	1 (bases 1 to 1320)		
AUTHORS	Ryberg, E., Vu, H. K., Larsson, N., Groblewski, T., Hjorth, S., Elstbring, T., Sjogren, S. and Greasley, P. J.		
TITLE	Identification and characterisation of a novel splice variant of the human CB1 receptor		
JOURNAL	FEBS Lett. 579 (1), 259-264 (2005)		
PUBMED	15620723		
REFERENCE	2 (bases 1 to 1320)		
AUTHORS	Khang, Vu, H., Groblewski, T. and Greasley, P.		
TITLE	Direct Submission		
JOURNAL	Submitted (28-SEP-2004) Molecular Sciences, AstraZeneca, 7171 Frederick Banting, Saint-Laurent, QC H4S1Z9, Canada		
FEATURES	location/Qualifiers		
source	1..1330		
	/organism="Homo sapiens"		
	/mol_type="mRNA"		
	/db_xref="taxon:9606"		
	/chromosome="6"		
	/map="6q14-q15"		
	1..1330		
	/note="N-terminal variant; alternatively spliced; G protein-coupled receptor"		
	/codon_start=1		
	/product="cannabinoid receptor 1 splice variant CB1b"		
	/protein_id="AAV35030.1"		
	/db_xref="GI:54609770"		
	/translation="MKSLIDSLADTTPRTITTDLGGSPQKRTAGDNPOLVADPOVNV /ITERYNKSLSSFKENENITQCGENFMDECEWNLPSQQLAVSLTLGTFTYLENN LVLGVILHSRLRCPSPYHFGSLAVADLGSVLFVYSFIDFHFHRDSSRVLEFKK LGTAVSPASVGSFLFLAIDRYVLSIHRLAVKRVTRKAVAVAFCLMTWTIAVIVLL LKNGCKELDSVCSDDIPHIDETLMFVIKVTSLVLPVAVAMYILMKASHAVRMD ORGQKSLIHTSDGKVOYRPPDQARNDDPLAKTIVLILVLLICWQPLAIWYDDI FRKAKKLIKTPAPRCMSLCLANSTVNPITYILRSKDLNHRSPSPSEGRNQPIDNN MGSDCLHKHNNANASVHRAESCKTSVKIAXKVTMSVSTDSAL"		
ORIGIN			
Query Match	100.0%;	Score 1320;	DB 5; Length 1320;
Best Local Similarity	100.0%;	Pred. No. 0;	
Matches 1320;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0;
QY	1	ATGAAGTGATCTAGATGCGCTTGCGAATACCACTTCGCGACCATGACCACTGACCTC	60
Db	1	ATGAAGTGATCTAGATGCGCTTGCGAATACCACTTCGCGACCATGACCACTGACCTC	60
QY	61	CTGGGAAGTCCCTTCCAGAGAGATGACTGGGGAGAACACCCCACTAGTCCACAGA	120
Db	61	CTGGGAAGTCCCTTCCAGAGAGATGACTGGGGAGAACACCCCACTAGTCCACAGA	120
QY	121	GACCGAGTGGAACATTACAGATTTTACAAAGTCTCTGCTCCTTCAAGAGAGATGAG	180
Db	121	GACCGAGTGGAACATTACAGATTTTACAAAGTCTCTGCTCCTTCAAGAGAGATGAG	180
QY	181	GAGAACATCCAGTGTGGGAGAACTTACATGACATAGAGTGTTCATGGTCTCGAACCC	240
Db	181	GAGAACATCCAGTGTGGGAGAACTTACATGACATAGAGTGTTCATGGTCTCGAACCC	240
QY	241	AGCCAGCAGCTGGCCATTGCAAGTCTGTCTCCTCAGCGCTGGGACCTTACAGGTCCTGGAG	300

Db	241	AGCCAGACAGCTGGCCATTGCAAGTCTGTGCTCTCAACCTGGGCACTTCAAGGTCCTGGAG	300
Qy	301	AACTCTCGGTGCTGTGCGTCAATCCATCACTCCGAGGCTCCGCTGACAGGCTTCTCTAC	360
Db	301	AACCTCTGTGTGTGTGCGTCAATCCATCCATCCCGAGGCTCCGCTGACAGGCTTCTCTAC	360
Qy	361	CACCTTCATGGGCAAGCTGGCGGGTGGGAGACCTTCCTGGGAGATGTCAATTTTGTCTACAG	420
Db	361	CACCTTCATGGGCAAGCTGGCGGGTGGGAGACCTTCCTGGGAGATGTCAATTTTGTCTACAG	420
Qy	421	TTCATTTAGCTTCACAGTGTTCACACCGCAAAAGATAGCGGGAAGTGTTCGTTCACATCG	480
Db	421	TTCATTTAGCTTCACAGTGTTCACACCGCAAAAGATAGCGGGAAGTGTTCGTTCACATCG	480
Qy	481	GGTGGGGGTTCACGGGCTCTTCACTGCGTCCGTGGGAGGCGCTGTTCTTCAACGATCGAC	540
Db	481	GGTGGGGGTTCACGGGCTCTTCACTGCGTCCGTGGGAGGCGCTGTTCTTCAACGATCGAC	540
Qy	541	AGGTTCATATTCATTCACAGGCCCTCGGCTTAATAGAGGATGTTCACAGGCCCAAGGCC	600
Db	541	AGGTTCATATTCATTCACAGGCCCTCGGCTTAATAGAGGATGTTCACAGGCCCAAGGCC	600
Qy	601	GTGGTAGGCTTTTGGCTGATGTGGACCAATAGCATTTGTATGCGCGTGTGCTCTCCG	660
Db	601	GTGGTAGGCTTTTGGCTGATGTGGACCAATAGCATTTGTATGCGCGTGTGCTCTCCG	660
Qy	661	GGCTGGAACTGGAGAACTGGCAATCTGTTGCTCAGACATTTTCCGACACATTTAGAA	720
Db	661	GGCTGGAACTGGAGAACTGGCAATCTGTTGCTCAGACATTTTCCGACACATTTAGAA	720
Qy	721	ACCTACCTGATGTTCTGATCGGGGTCACACAGCGTACTGCTCTGTTCATCTGTATAGCG	780
Db	721	ACCTACCTGATGTTCTGATCGGGGTCACACAGCGTACTGCTCTGTTCATCTGTATAGCG	780
Qy	781	TACATGTATATCTCTGGAAAGGCTCAACGCCACGCCGTCCGATGATTAAGGGTGGACCC	840
Db	781	TACATGTATATCTCTGGAAAGGCTCAACGCCACGCCGTCCGATGATTAAGGGTGGACCC	840
Qy	841	CAGAAGAGCATCATCATCAACAGTCTGAGATGGGAAGGTACAGGTGACCCGGGACGAC	900
Db	841	CAGAAGAGCATCATCATCAACAGTCTGAGATGGGAAGGTACAGGTGACCCGGGACGAC	900
Qy	901	CAGGCCGCGATGAGACATTAGTTAGCCAAAGCCCTGGTCTGATCCTGTGTGTGTGTATC	960
Db	901	CAGGCCGCGATGAGACATTAGTTAGCCAAAGCCCTGGTCTGATCCTGTGTGTGTGTATC	960
Qy	961	ATCTGCTGGGGCCCTCTGCTTGCAATCATGTGTATGATGTCTTTGGAAAGTAAACAAG	1020
Db	961	ATCTGCTGGGGCCCTCTGCTTGCAATCATGTGTATGATGTCTTTGGAAAGTAAACAAG	1020
Qy	1021	CTCATTTAAGAGGTTGTCATTTGCAATGAGTATGCTGTGCTGTAACTCCACCCGGAAC	1080
Db	1021	CTCATTTAAGAGGTTGTCATTTGCAATGAGTATGCTGTGCTGTAACTCCACCCGGAAC	1080
Qy	1081	CCCATCATCTATGCTCTGAGAGTAAAGGACCTGCGACACGCTTCCGAGACATGTTTCCC	1140
Db	1081	CCCATCATCTATGCTCTGAGAGTAAAGGACCTGCGACACGCTTCCGAGACATGTTTCCC	1140
Qy	1141	TCTTGTGAAGGCACTGCGGAGGCTCTGATTAACAGCATGGGAGGACTCGACTGCGAC	1200
Db	1141	TCTTGTGAAGGCACTGCGGAGGCTCTGATTAACAGCATGGGAGGACTCGACTGCGAC	1200
Qy	1201	AAACACGCAAAACAAGGACGAGTGTTCACAGGGCCGCAAGAAAGTGCATCAAGACAG	1260
Db	1201	AAACACGCAAAACAAGGACGAGTGTTCACAGGGCCGCAAGAAAGTGCATCAAGACAG	1260
Qy	1261	GTCAAGATTGGCAAGGTAACATGTCTGTGTCCAAGACAGTCTGCGAGGCTCTGTGA	1320
Db	1261	GTCAAGATTGGCAAGGTAACATGTCTGTGTCCAAGACAGTCTGCGAGGCTCTGTGA	1320

[illegible]

QY	712	ATTGATGAACCTTACCTGATGTTCTGGATGGGGTCAACGCGTACTGCTTCTGTTCATC	771
Db	932	ATTGATGAACCTTACCTGATGTTCTGGATGGGGTCAACGCGTACTGCTTCTGTTCATC	991
QY	772	GTGATGATGATCATGATATAATCTCTGGAAGGCTCAAGCGACCGCTCGCATGATTCAG	831
Db	992	GTGATGATGATCATGATATAATCTCTGGAAGGCTCAAGCGACCGCTCGCATGATTCAG	1051
QY	832	CGTGGCAACCCAGAAAGACATCATCATCAACGCTCTGAGAGATGGAAAGGTACAGGTGACC	891
Db	1052	CGTGGCAACCCAGAAAGACATCATCATCAACGCTCTGAGAGATGGAAAGGTACAGGTGACC	1111
QY	892	CGGCCAGACCAAGCCCGCATGAGACATTAGGTTAGCCAAAGACCTGTGCTCTGATCTGTGG	951
Db	1112	CGGCCAGACCAAGCCCGCATGAGACATTAGGTTAGCCAAAGACCTGTGCTCTGATCTGTGG	1171
QY	952	GTGTTGATCATCTGCTGGGGCCCTCTGCTTGCAATCAATGATGATGATGATCTTTGGGAAG	1011
Db	1172	GTGTTGATCATCTGCTGGGGCCCTCTGCTTGCAATCAATGATGATGATGATCTTTGGGAAG	1231
QY	1012	ATGAACAAGCTCATTTAAGACGGTGTTCGATTTGCAATGCTGACCTGCTGCAACTCC	1071
Db	1232	ATGAACAAGCTCATTTAAGACGGTGTTCGATTTGCAATGCTGACCTGCTGCAACTCC	1291
QY	1072	ACCGTGAAACCCCATCATCTATGCTCTGAGAGATGAAGACCTTGCGACAACGCTTTCCGAGC	1131
Db	1292	ACCGTGAAACCCCATCATCTATGCTCTGAGAGATGAAGACCTTGCGACAACGCTTTCCGAGC	1351
QY	1132	ATGTTTCCCTTTTGTGAAGGACCTGCGACGCTCTGTGATTAACAGATGGGGGACTGTGAC	1191
Db	1352	ATGTTTCCCTTTTGTGAAGGACCTGCGACGCTCTGTGATTAACAGATGGGGGACTGTGAC	1411
QY	1192	TGCTGCAACAACACGCAACATGACAGCCAGTGTTCACAGGGCCGCAAGAACTGCTATC	1251
Db	1412	TGCTGCAACAACACGCAACATGACAGCCAGTGTTCACAGGGCCGCAAGAACTGCTATC	1471
QY	1252	AAGAGCAGGTCAGATTTGCCAGGTAAACATGCTGTGTTCACAGACAGCTGTGCGAG	1311
Db	1472	AAGAGCAGGTCAGATTTGCCAGGTAAACATGCTGTGTTCACAGACAGCTGTGCGAG	1531
QY	1312	GCTCTGTGA	1320
Db	1532	GCTCTGTGA	1540
RESULT 4			
LOCUS	AX658255	5665 bp	DNA
DEFINITION	Sequence 171 from Patent WO03000928.	linear	PAT 22-MAR-2003
ACCESSION	AX658255		
VERSION	AX658255.1	GI:29160783	
KEYWORDS			
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.		
REFERENCE	1		
AUTHORS	Poulsen,H.S., Pedersen,N., Mortensen,S., Sorensen,S.B., Petersen,M.W. and Elnier,H.I.		
TITLE	Methods for identification of cancer cell surface molecules and cancer specific promoters, and therapeutic uses thereof		
JOURNAL	Patent: WO 03000928-A 171 03-JAN-2003;		
FEATURES	Odin Medical A/S (DK)		
source	Location/Qualifiers		
	1..5665		
	/organism="Homo sapiens"		
	/mol_type="unassigned DNA"		
	/db_xref="taxon:9606"		
ORIGIN			
Query Match	95.4%; Score 1259.4; DB 2; Length 5665;		

Db 1292 ACCGTGAACCCATCATATAGCTCTGAGAGTAAGACCTGCGACACGCTTCCGAGC 1351
Qy 1132 ATGTTCCCTCTGTGAAGCACTGGCAGCCCTCTGATPAACGATGGGGGACTGGAGC 1191
Db 1352 ATGTTCCCTCTGTGAAGCACTGGCAGCCCTCTGATPAACGATGGGGGACTGGAGC 1411
Qy 1192 TGCCTGCAAAACACGCAAAACATGAGCAGCGTTCACAGGAGCCGAGAAAGCTGCATC 1251
Db 1412 TGCCTGCAAAACACGCAAAACATGAGCAGCGTTCACAGGAGCCGAGAAAGCTGCATC 1471
Qy 1252 AAGAGCAGGTCAAGATGTCCAGAGGTAAACCATGTCTGTCTCAAGACAGCTGCGCAG 1311
Db 1472 AAGAGCAGGTCAAGATGTCCAGAGGTAAACCATGTCTGTCTCAAGACAGCTGCGCAG 1531
Qy 1312 GCTCTGTGA 1320
Db 1532 GCTCTGTGA 1540

RESULT 5
AX818167
LOCUS AX818167 5665 bp DNA linear PAT 10-DEC-2003
DEFINITION Sequence 38 from Patent WO03068268.
ACCESSION AX818167
VERSION AX818167.1 GI:39723240
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.

REFERENCE 1
AUTHORS Ek,S., Borrebaeck,C.A. and Ehinger,M.
TITILE Treatment, diagnosis and imaging of disease
JOURNAL Patent: WO 03068268-A 38 21-AUG-2003;
BIOINVENT INTERNATIONAL AB (SE)
FEATURES
source 1.5665
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN
Query Match 95.4%; Score 1259.4; DB 2; Length 5665;
Best Local Similarity 99.5%; Pred. No. 0;
Matches 1563; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
Qy 52 ACTGACCTCTGGAAGTCCCTTCCAAAGAGATGACGCGGAGAGACAACCCCGACGTA 111
Db 272 ACTTCTTTTGAAGGAGATCCCTTCCAAAGAGATGACGCGGAGAGACAACCCCGACGTA 331
Qy 112 GTCCAGCAGACAGGTGAACATTAACAATTTTAAACAAGTCTCTCGTCTTCAAG 171
Db 332 GTCCAGCAGACAGGTGAACATTAACAATTTTAAACAAGTCTCTCGTCTTCAAG 391
Qy 172 GAGGATGAGAGAAACATCAAGTGTGGGAGAACTTATGACATTAAGTGTTCATGTC 231
Db 392 GAGGATGAGAGAAACATCAAGTGTGGGAGAACTTATGACATTAAGTGTTCATGTC 451
Qy 232 CTGAACCCGAGCAGAGCTGGCATTGAGTCTGTCCCTCAACGCTGGGAGCCTTCAAG 291
Db 452 CTGAACCCGAGCAGAGCTGGCATTGAGTCTGTCCCTCAACGCTGGGAGCCTTCAAG 511
Qy 292 GTCTGTGAGAACCTCTGT 351
Db 512 GTCTGTGAGAACCTCTGT 571
Qy 352 CTTTCTTACCACTTCACTGGCAGCCTGGGAGGAGAGACCTCTGGGAGGAGTGTATTTT 411
Db 572 CTTTCTTACCACTTCACTGGCAGCCTGGGAGGAGAGACCTCTGGGAGGAGTGTATTTT 631
Qy 412 GTCTACAGCTTCACTGATTTCAAGTGTTCACCGCAAGATAGCCGCAAGGTTTCTG 471

Db 632 GTCTACAGCTTCACTGATTTCAAGTGTTCACCGCAAGATAGCCGCAAGGTTTCTG 691
Qy 472 TTCAAACTGGGTGGGTCAACGCGCTCTTCACTGCTCCGTGGGAGCCTGTTCTCA 531
Db 692 TTCAAACTGGGTGGGTCAACGCGCTCTTCACTGCTCCGTGGGAGCCTGTTCTCA 751
Qy 532 GCATTCGACAGGTACATATTCATTCACAGAGCCCTGGGCTTATTAAGATTTGACCAAG 591
Db 752 GCATTCGACAGGTACATATTCATTCACAGAGCCCTGGGCTTATTAAGATTTGACCAAG 811
Qy 592 CCCAAGCCGCTGTAGCGTTTGTCTGTATGTGACCATATGACATTTGTATGCGCGTGTG 651
Db 812 CCCAAGCCGCTGTAGCGTTTGTCTGTATGTGACCATATGACATTTGTATGCGCGTGTG 871
Qy 652 CCTCTCTGGGCTGGAATGCGAGAACTGCAATCTGTTTGTCTCAGACATTTTCCACAC 711
Db 872 CCTCTCTGGGCTGGAATGCGAGAACTGCAATCTGTTTGTCTCAGACATTTTCCACAC 931
Qy 712 ATTTGAATGAACCTACCTGATGTCTGTATGCGGGGTACACAGGCTACGCTTGTTCATC 771
Db 932 ATTTGAATGAACCTACCTGATGTCTGTATGCGGGGTACACAGGCTACGCTTGTTCATC 991
Qy 772 GTGTATGCGTACATGATATATTTCTGTGAAGGCTCAAGCAGCGCTCGCATGATTGAG 831
Db 992 GTGTATGCGTACATGATATATTTCTGTGAAGGCTCAAGCAGCGCTCGCATGATTGAG 1051
Qy 832 CGTGACCCGAGAAAGCATCATTCACACAGCTTGAGATGGAGATGGAGATGAGGTAC 891
Db 1052 CGTGACCCGAGAAAGCATCATTCACACAGCTTGAGATGGAGATGGAGATGAGGTAC 1111
Qy 892 CGGCGAGACCAAGCCCGCATGTGACATTTAGGTTAGCAAGCCCTGCTGTATCTGTG 951
Db 1112 CGGCGAGACCAAGCCCGCATGTGACATTTAGGTTAGCAAGCCCTGCTGTATCTGTG 1171
Qy 952 GTGTATCATGTGTGGGCGCTCTGTGCAATCATGTGTATGATGTCTTGGGAG 1011
Db 1172 GTGTATCATGTGTGGGCGCTCTGTGCAATCATGTGTATGATGTCTTGGGAG 1231
Qy 1012 ATGAACAGCTCATTAAGAGCGGTGTGTGATTTGCAATGTGATGCTGTCTGTGAATCTCC 1071
Db 1232 ATGAACAGCTCATTAAGAGCGGTGTGTGATTTGCAATGTGATGCTGTCTGTGAATCTCC 1291
Qy 1072 ACCGGAACCCCATATATATATCTGTGAGAGTAAAGACCTGGGACAGCCTTCCGAGC 1131
Db 1292 ACCGGAACCCCATATATATATCTGTGAGAGTAAAGACCTGGGACAGCCTTCCGAGC 1351
Qy 1132 ATGTTTCCCTCTTGAAGGACCTGCGAGCTCTGATTAACAGATGGGGGACTCGAGC 1191
Db 1352 ATGTTTCCCTCTTGAAGGACCTGCGAGCTCTGATTAACAGATGGGGGACTCGAGC 1411
Qy 1192 TGCCTGCAAAACACGCAAAACATGAGCAGCGTTCACAGGAGCCGAGAAAGCTGCATC 1251
Db 1412 TGCCTGCAAAACACGCAAAACATGAGCAGCGTTCACAGGAGCCGAGAAAGCTGCATC 1471
Qy 1252 AAGAGCAGGTCAAGATTTGCAAGGTAAACATGTCTGTCTCAAGACAGCTTCCGAG 1311
Db 1472 AAGAGCAGGTCAAGATTTGCAAGGTAAACATGTCTGTCTCAAGACAGCTTCCGAG 1531
Qy 1312 GCTCTGTGA 1320
Db 1532 GCTCTGTGA 1540

RESULT 6
HSU73304 5665 bp DNA linear PRI 05-NOV-1996
LOCUS HSU73304
DEFINITION Human CBI cannabinoid receptor (CB1) gene, complete cds.
ACCESSION U73304
VERSION U73304.1 GI:1657840
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
1 (bases 1 to 5665)
Hoehn, M.R., Caenazzo, L., Martinez, M.M., Hsieh, W.T., Modi, W.S.,
Gershon, E.S. and Bonner, T.I.
Genetic and physical mapping of the human cannabinoid receptor gene
to chromosome 6q14-q15
New Biol. 3 (9), 880-885 (1991)
1931832
JOURNAL
PUBMED
2 (bases 1 to 5665)
Bonner, T.I.
The coding exon of the human CB1 cannabinoid receptor
Unpublished
3 (bases 1 to 5665)
Bonner, T.I.
Direct Submission
Submitted (03-Oct-1996) Lab of Cell Biology, NIMH, Bldg. 36, Rm
3A-17, MSC 4090, Bethesda, MD 20892-4090, USA
JOURNAL
3A-17, MSC 4090, Bethesda, MD 20892-4090, USA
FEATURES
source
1..5665
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="6"
/map="6q14-15"
<1..58
/note="5 exons located 19-23 kb upstream"
59..5530
/gene="CNR1"
<59..5530
/gene="CNR1"
122..1540
/gene="CNR1"
/note="G protein-coupled receptor"
/codon_start=1
/product="CB1 cannabinoid receptor"
/protein_id="AAB18200.1"
/db_xref="GI:1657841"
/translation="MKSILLDLGLADPTPTTITDLYVGNNDIOVEDIKGMASIKLGVF
PQKPLTFPRGSPFOBKRTAGDNPOLVADQNTTEPRKLSISKREBNIOCCENF
MDIECFWLNPSQOALAVLSTLTGTFVLEMLVLCVILHSRSLRPSYHFGISLA
VADLGSVIFVYSFIDFVFKDSDRNVLFLQGVVLSPTASVGSLEPLVLDRTISI
HRLPDKRIIVTRPKAVVAFCIMMTIAYAVAPLIGNCEKQSCSDIPHIDETSL
MFWIGVTSLLFLFYAVVYIIMKASHAWRMIOGTQKSIITHTSENGKOVETPDQ
AMQDRIKATVLIIVLILCMGPLAIIMVDVDFKMKRLITVPAFCSMLCLNSTV
NPITYAKSKDIRHAFRSMRPSCEGTADPLDMSMDSDCLHKNANNAVYRAAESCI
KSTVIAKVTMSVSTDSAEAL"
polyA_signal
5499..5504
/gene="CNR1"
5530
/gene="CNR1"
/note="location established by comparison with ESTs with
GenBank Accession Numbers R20626, R42346, H06205, H10202"
ORIGIN
Query Match 95.4%; Score 1259.4; DB 5; Length 5665;
Best Local Similarity 99.5%; Pred. No. 0;
Matches 1263; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 52 ACTGACCTCTGGGAAGTCCTTCCAGAGAAAGATGACGCGGAGACAACCCCGAGCTA 111
DB 272 ACTTCCTTTAGGGGAAGTCCTTCCAGAGAAAGATGACGCGGAGACAACCCCGAGCTA 331
QY 112 GTCCGAGGAGACAGAGTGAACATTAACAATTTTACACAAGTCTCTCGCTTCAAG 171
DB 332 GTCCGAGGAGACAGAGTGAACATTAACAATTTTACACAAGTCTCTCGCTTCAAG 391
QY 172 GAGATGAGAGAAACATCCAGTGTGGGAGAACTTCAAGACATGAGAGTGTTCATGCTC 231
DB 392 GAGATGAGAGAAACATCCAGTGTGGGAGAACTTCAAGACATGAGAGTGTTCATGCTC 451
QY 232 CTGAACCCGAGCAGAGAGTGGCAATGCAATGCAATGCTCTGCTCCCTGACGCTGGGACCTTCAG 291
|||||

DB 452 CTGAACCCGAGCAGAGAGTGGCAATGCAATGCAATGCTCTGCTCCCTGACGCTGGGACCTTCAG 511
QY 292 GTCCGAGGAGACCTCTGAGTGTGGGTCAATCTCCATCTCCGAGCTCCGCTGAGG 351
DB 512 GTCCGAGGAGACCTCTGAGTGTGGGTCAATCTCCATCTCCGAGCTCCGCTGAGG 571
QY 352 CTTCTCAACCACTTCATCGGAGCTGGGTGGCAAGCTCTCGGGAGGTGATTTT 411
DB 572 CTTCTCAACCACTTCATCGGAGCTGGGTGGCAAGCTCTCGGGAGGTGATTTT 631
QY 412 GTTACAGCTTCAATTAATCTTCAAGTGTTCACACCGCAAAAGATAGCCCAAGTGTTCG 471
DB 632 GTTACAGCTTCAATTAATCTTCAAGTGTTCACACCGCAAAAGATAGCCCAAGTGTTCG 691
QY 472 TTCAACCTGGGTGGGTCAGGCGCTCTCACTGCTCCGAGGAGCTGTTCCTACA 531
DB 692 TTCAACCTGGGTGGGTCAGGCGCTCTCACTGCTCCGAGGAGCTGTTCCTACA 751
QY 532 GCCATCGACAGGTACATATCCATTCAAGGCGCTGGCTTAAGAGATTTGACAGAG 591
DB 752 GCCATCGACAGGTACATATCCATTCAAGGCGCTGGCTTAAGAGATTTGACAGAG 811
QY 592 CCCAAGGCGGTGTAAGCGTTTTCCTGATGTGACCAATAGCATTTGATGCGCTG 651
DB 812 CCCAAGGCGGTGTAAGCGTTTTCCTGATGTGACCAATAGCATTTGATGCGCTG 871
QY 652 CCTCTCCGAGGCTGGAACCTGAGAACTGCAATCTGTTGCTGACATTTTCCACAC 711
DB 872 CCTCTCCGAGGCTGGAACCTGAGAACTGCAATCTGTTGCTGACATTTTCCACAC 931
QY 712 ATTGATGAACCTTACCTGATGTTGATTCGAGGCTCAACAGCTTCTGTTGATC 771
DB 932 ATTGATGAACCTTACCTGATGTTGATTCGAGGCTCAACAGCTTCTGTTGATC 991
QY 772 GTGATGCTGATCATGATATTTCTTGAAGGCTCAACAGCGCTGCGATGATTCAG 831
DB 992 GTGATGCTGATCATGATATTTCTTGAAGGCTCAACAGCGCTGCGATGATTCAG 1051
QY 832 CGTGGACCCGAGAGAGCATCATCAACAGCTCTGAGATGGGAAGGTACAGGTGAC 891
DB 1052 CGTGGACCCGAGAGAGCATCATCAACAGCTCTGAGATGGGAAGGTACAGGTGAC 1111
QY 892 CGGCGAGACCAAGCCCGCATGAGACATTAAGTTAGCAAGACCTGTGCTTGATCTG 951
DB 1112 CGGCGAGACCAAGCCCGCATGAGACATTAAGTTAGCAAGACCTGTGCTTGATCTG 1171
QY 952 GTTGTGATCATGCTGTGGGCGCTCTGCTGCAATCATGTGTGATGATGTTGGGAG 1011
DB 1172 GTTGTGATCATGCTGTGGGCGCTCTGCTGCAATCATGTGTGATGATGTTGGGAG 1231
QY 1012 ATGAACAAAGCTCATTAAGACGAGTGTTCATTTGACAGTATGCTCTGCTGTAACCTCC 1071
DB 1232 ATGAACAAAGCTCATTAAGACGAGTGTTCATTTGACAGTATGCTCTGCTGTAACCTCC 1291
QY 1072 AACCCTGAACCCCATCATATGCTCTGAGAGTAAGACCTGCGACACGCTTTCGAGAC 1131
DB 1292 AACCCTGAACCCCATCATATGCTCTGAGAGTAAGACCTGCGACACGCTTTCGAGAC 1351
QY 1132 ATGTTTCCCTCTTGTGAAGGACATGCGAGGCTCTGATTAACAGAGTGGGAGACTCGGAC 1191
DB 1352 ATGTTTCCCTCTTGTGAAGGACATGCGAGGCTCTGATTAACAGAGTGGGAGACTCGGAC 1411
QY 1192 TGCCGTGACAAACAGCAAAACAATGACAGCGAGTTCACAGGGCGGAGAAAGCTGATC 1251
DB 1412 TGCCGTGACAAACAGCAAAACAATGACAGCGAGTTCACAGGGCGGAGAAAGCTGATC 1471
QY 1252 AAGAGCAGGTCAAGATTGCCAAGGTACCAATGCTGTGTCCACAGACACGTTGCGAG 1311
DB 1472 AAGAGCAGGTCAAGATTGCCAAGGTACCAATGCTGTGTCCACAGACACGTTGCGAG 1531
QY 1312 GCTCTGTGA 1320
DB 1532 GCTCTGTGA 1540
|||||

RESULT 7
AY225225
LOCUS
DEFINITION Homo sapiens cannabinoid receptor 1 long isoform gene, complete cds.
ACCESSION AY225225
VERSION AY225225.1 GI:29293104
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 1419)
Kopatz,S.A., Aronstam,R.S. and Sharma,S.V.
Isolation of complete coding sequence for cannabinoid receptor 1 long isoform (CNRL)
Unpublished
JOURNAL 2 (bases 1 to 1419)
Kopatz,S.A., Aronstam,R.S. and Sharma,S.V.
Direct Submission
AUTHORS Submitted (21-JAN-2003) Guthrie CDNA Resource Center, Guthrie Research Institute, 1 Guthrie Square, Sayre, PA 16840, USA
FEATURES
source
1..1419
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
<1..>1419
/product="cannabinoid receptor 1 long isoform"
1..1419
/note="G-protein coupled receptor; CNRL"
/codon_start=1
/product="cannabinoid receptor 1 long isoform"
/protein_id="AA067710.1"
/db_xref="GI:29293105"
/translation="MKSILDDGADPTFTTTDLVYSNDIQEDIDGMASKIGYF
FOKPLISFRSPFOEKRTAGDNPQVADQNTIEFNKSLSSKEENINQCEENF
MDIECFWNLNSQDLALVLSLTGTFVLENLAVLCYLHSRLRCPSPHYFISLA
VADLGSVIFVYSFDFVHFKOSRNVLEFLGGVTFASVGSLEPLAIDRYSI
HRPLAYKRIIVFPAKVAFAVCLMMTIAIVAVLPLGNMCEKLOSVCSDIPHIDETVL
MFWIGTVSLLEFVYAVMYLIMKASHVAVMIOGRKXSLIIHHSBGRKQVTRPD
ARMQIRLAKTIVLIVLILICPLPLAMVDVFKNKXKLITVFAFCSMLCLANSTV
NPILYALSKDLRHAFRSMPSCBETQAQPLDNMGSDCLHGHANNAASVRAAESCI
KSTVIAKVTWSVSTDSAEAL"

ORIGIN
Query Match 95.3%; Score 1257.8; DB 5; Length 1419;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1262; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
QY 52 ACTGACCTCTGGGAAGTCCCTTCCAGAGAAAGATGATCGGAGAGACAAACCCGAGCTA 111
Db 151 ACTTCCTTAGGGGAGAGTCCCTTCCAGAGAAAGATGATCGGAGAGACAAACCCGAGCTA 210
QY 112 GTCCAGAGACCAAGTGAACATTAAGAAATTTTCAACAAGTCTCTGCTGCTTCAAG 171
Db 211 GTCCAGAGACCAAGTGAACATTAAGAAATTTTCAACAAGTCTCTGCTGCTTCAAG 270
QY 172 GAGAAATGAGGAACATTCAGATGTGGGAGAACTTCATGAGCATAGAGTGTTCATGATC 231
Db 271 GAGAAATGAGGAACATTCAGATGTGGGAGAACTTCATGAGCATAGAGTGTTCATGATC 330
QY 232 CTGAACCCGACGACGATGAGCTGAGCTGCTGCTGCTGCTGAGCTGAGCACTTCAAG 291
Db 331 CTGAACCCGACGACGATGAGCTGAGCTGCTGCTGCTGAGCTGAGCACTTCAAG 390
QY 292 GTCTGAGAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 351
Db 391 GTCTGAGAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 450

QY 352 CCTCTACCACTTCAATGCGGAGCGCGGCGGAGACCTCTGCGGAGATGATATTTT 411
Db 451 CCTTCTACCACTTCAATGCGGAGCGCGGCGGAGACCTCTGCGGAGATGATATTTT 510
QY 412 GTCTACAGCTTCAATGATCTTCCACGCTGTTCACCGCAAGATAGCCGACGCTGTTCTG 471
Db 511 GTCTACAGCTTCAATGATCTTCCACGCTGTTCACCGCAAGATAGCCGACGCTGTTCTG 570
QY 472 TTCAAACTGGGGGGGTCAAGCGCTCTTCACTGCTCCGTGGGAGAGCTGTTCTGACA 531
Db 571 TTCAAACTGGGGGGGTCAAGCGCTCTTCACTGCTCCGTGGGAGAGCTGTTCTGACA 630
QY 532 GCCATCGACAGGTATATTCATTCACAGGCCCTGCGCTTAAAGATGTTGACCGAG 591
Db 631 GCCATCGACAGGTATATTCATTCACAGGCCCTGCGCTTAAAGATGTTGACCGAG 690
QY 592 CCAGAGCGCGTGGTACGCTTTTGGCTGATGAGACCATAGACCATGATGATGACGCGTGTG 651
Db 691 CCAGAGCGCGTGGTACGCTTTTGGCTGATGAGACCATAGACCATGATGATGACGCGTGTG 750
QY 652 CCTCTCTGGGCTGGAATCGGAGAAATCGCAATCTGTTGCTGACATTTTCCACAC 711
Db 751 CCTCTCTGGGCTGGAATCGGAGAAATCGCAATCTGTTGCTGACATTTTCCACAC 810
QY 712 ATGATGAACCTACCTGATGTTCTGATCGGGGTCAACAGGTAATCTGCTTCTGTCATC 771
Db 811 ATGATGAACCTACCTGATGTTCTGATCGGGGTCAACAGGTAATCTGCTTCTGTCATC 870
QY 772 GTGTATGCGTACATGTATATCTCTGGAAGCTCACAGCCGCGTCCGATGATTCAG 831
Db 871 GTGTATGCGTACATGTATATCTCTGGAAGCTCACAGCCGCGTCCGATGATTCAG 930
QY 832 GTGGACCCGAGAAAGATCATATCCACAGTCTGAGATGGGAAGTACAGGTGACC 891
Db 931 GTGGACCCGAGAAAGATCATATCCACAGTCTGAGATGGGAAGTACAGGTGACC 990
QY 892 CGGCGACGCAAGCCCGATGAGCATTTAGTTCAGCAAGCCCTGCTCTGATCCTGCTG 951
Db 991 CGGCGACGCAAGCCCGATGAGCATTTAGTTCAGCAAGCCCTGCTCTGATCCTGCTG 1050
QY 952 GTGTGATCATCTGCTGGGGCCCTCTGCTGCAATCATGATGATGATGATGATGATG 1011
Db 1051 GTGTGATCATCTGCTGGGGCCCTCTGCTGCAATCATGATGATGATGATGATGATG 1110
QY 1012 ATGAACAAGCTATTAGACGCTGTTGATCTGCAATCTGCAATGCTCTGCTGCAATCC 1071
Db 1111 ATGAACAAGCTATTAGACGCTGTTGATCTGCAATCTGCAATGCTCTGCTGCAATCC 1170
QY 1072 ACCGTGAACCCCATCATATGCTCTGAGAGTAAAGACCTGCGACAGCTTTCCGAGC 1131
Db 1171 ACCGTGAACCCCATCATATGCTCTGAGAGTAAAGACCTGCGACAGCTTTCCGAGC 1230
QY 1132 ATGTTTCCCTCTTGGAAAGGACATGCGGACCTCTGATTAACAGATGAGGAGACTCGGAC 1191
Db 1231 ATGTTTCCCTCTTGGAAAGGACATGCGGACCTCTGATTAACAGATGAGGAGACTCGGAC 1290
QY 1192 TGCTTGCAAAACGCAACCAATGACAGCGTGTTCACAGGCGCGCAAGAGCTGATC 1251
Db 1291 TGCTTGCAAAACGCAACCAATGACAGCGTGTTCACAGGCGCGCAAGAGCTGATC 1350
QY 1252 AAGAGCAGGTCAGATTTGCCAAGGTAAACATGCTGTGTGTTCACAGACAGCTGCGGAG 1311
Db 1351 AAGAGCAGGTCAGATTTGCCAAGGTAAACATGCTGTGTGTTCACAGACAGCTGCGGAG 1410
QY 1312 GCTCTGTGA 1320
Db 1411 GCTCTGTGA 1419

RESULT 8
BC100968
LOCUS
DEFINITION Homo sapiens cannabinoid receptor 1 (brain), transcript variant 1,
1419 bp mRNA, linear PRI 02-AUG-2005

ACCESSION BC100968
VERSION BC100968.1 GI:71682702
KEYWORDS MGC.
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 1419)
AUTHORS Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Schemper, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Heide, F., Dietchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L., Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J., McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahey, J., Heaton, E., Kettelman, M., Madan, A., Rodriguez, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakeley, R.W., Touchman, J.W., Green, E.D., Dickinson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butlerfield, Y.S., Krzywinski, M.I., Skalka, J., Smalke, D.E., Scherch, A., Schein, J.E., Jones, S.J., and Matra, M.A.
CONSTRM Mammalian Gene Collection Program Team
TITLE Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
PUBMED 12477932
REFERENCES 2 (bases 1 to 1419)
AUTHORS NIH MGC Project
TITLE Direct Submission
JOURNAL Submitted (01-AUG-2005) National Institutes of Health, Mammalian Gene Collection (MGC), Bethesda, MD 20892-2590, USA
REMARK NIH-MGC Project URL: <http://mgc.nci.nih.gov>
COMMENT Contact: MGC help desk
Email: cgapbs-rc@mail.nih.gov
Tissue Procurement: Baylor Human Genome Sequencing Center
cDNA Library Preparation: Baylor Human Genome Sequencing Center
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNLI)
DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305
Web site: <http://www-shgc.stanford.edu>
Contact: (Dickson, Mark) mcd@paxil.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/ILNLI at: <http://image.llnl.gov>
Series: IRAM Place: 5 Row: e Column: 21.
FEATURES
source location/Qualifiers
1..1419
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="MGC:119258 IMAGE:40004970"
/tissue_type="PCR rescued clones"
/clone_id="NIH MGC 283"
/note="Vector: PCR-blunt II-TOP0 with reversed insert; clone identification sequence tag: AACCTCAC sequenced from the reverse primer"
1..1419
/gene="CNRI"
/note="synonyms: CB-R, CB1, CANN6, CB1A, CB1K5"
/db_xref="GeneID:1268"
/db_xref="MIM:114610"
1..1419
/gene="CNRI"

/codon_start=1
/product="central cannabinoid receptor, isoform a"
/protein_id="AA100969.1"
/db_xref="GI:71682703"
/db_xref="GeneID:1268"
/db_xref="MIM:114610"
translation="MKSILDLADPTTTRITTTDLIVYGSNDIQEYIDKIDMASRLGYF
POKPLTSPFGSPPOEMTADNPOLPAPOVNTTEPNKSSIFSEKNEENIOGNEF
MDIECFWINDPSOOLANVLSTIGCTTVLENLIVGLIHSRLRGPSVHFGSLA
VADLGSVITVYSFIDFVHRDNRVFLFKAGVASTASTAGSLFPLAIDRYISI
HRLPLAVRIVTRPAVAFCLMTWIAIVLPLIGNCELOSVCSDIFPHIDETL
MFWIGTVSVLLFLVAVMYILMKASHAVRMIOGTQKSIITHSDEGVQVTRPO
ARMDIRIAKTLIVLIVLIIICWGPLAIIVYDVFGKMKLIKVFAPCSMLCLANSTV
NPITVALRSDILRRAPSRMSPSCGTQNPIDNSMGSDCLHKHANNASVRAAESCI
KSYTKIAKVTMSVSTDSAL"

ORIGIN
Query Match 95.3%; Score 1257.8; DB 5; Length 1419;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1262; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
52 ACTGACCTCTGGGAAGTCCCTTCAGAGAAAGTGACTGGGGAGACACCCACGTA 111
151 ACTTCCTTAGGGGAAGTCCCTTCAGAGAAAGTGACTGGGGAGACACCCACGTA 210
112 GTCCGAGACGACGAGTGAACATTACGAATTTTAAACAAGTCTCTGGTCCCTCAAG 171
211 GTCCGAGACGACGAGTGAACATTACGAATTTTAAACAAGTCTCTGGTCCCTCAAG 270
172 GAGATGAGAGAAATTCAGATGTGGGAGAACTTCATGACATGAGTGTTCATGATGTC 231
271 GAGATGAGAGAAATTCAGATGTGGGAGAACTTCATGACATGAGTGTTCATGATGTC 330
232 CTGAACCCGACGACGAGCTGGCCATTGCACTCTGTCCCTCAAGCTGGGACCTTCAAG 291
331 CTGAACCCGACGACGAGCTGGCCATTGCACTCTGTCCCTCAAGCTGGGACCTTCAAG 390
292 GTCCGAGAGACCTTCAGATGTGGGAGAACTTCATGACATGAGTGTTCATGATGTC 351
391 GTCCGAGAGACCTTCAGATGTGGGAGAACTTCATGACATGAGTGTTCATGATGTC 450
352 CTTTCTCAACAATTCATGAGGAGCTGGCGGTGGCAAGCTTCCTGGGAGGTGATATTTT 411
451 CTTTCTCAACAATTCATGAGGAGCTGGCGGTGGCAAGCTTCCTGGGAGGTGATATTTT 510
412 GTCTACAGCTTCATGATGATTCATGATGATTCATGATGATTCATGATGATTCATGAT 471
511 GTCTACAGCTTCATGATGATTCATGATGATTCATGATGATTCATGATGATTCATGAT 570
472 TTCAAACTGGGTGGGAGTCAAGGCTCTTCACTGCTCCGTTGGGACAGCTGTTCCTACA 531
571 TTCAAACTGGGTGGGAGTCAAGGCTCTTCACTGCTCCGTTGGGACAGCTGTTCCTACA 630
532 GCATTCGACAGTACATATTCATTCATTCACAGGCTTCGCTTAAGAGATGTCACGAG 591
631 GCATTCGACAGTACATATTCATTCATTCACAGGCTTCGCTTAAGAGATGTCACGAG 690
592 CCAGAGGCGGTGGTGAAGGCTTTTGGCTGATGTGACATATGACATTTGATGCGGTGTG 651
691 CCAGAGGCGGTGGTGAAGGCTTTTGGCTGATGTGACATATGACATTTGATGCGGTGTG 750
652 CTTCTCTGGGCTGGAATCTGGAAGAACTGCAATCTGTTTCTGACATATTTCCACAC 711
751 CTTCTCTGGGCTGGAATCTGGAAGAACTGCAATCTGTTTCTGACATATTTCCACAC 810
712 ATTGATGAACCTTACCTGATGTTTGTGATCGGGGTCAACAGGTAAGTCTGTTTCATC 771
811 ATTGATGAACCTTACCTGATGTTTGTGATCGGGGTCAACAGGTAAGTCTGTTTCATC 870
772 GTGATATGATCAATGATATTTCTGTAAGAGGCTCAAGGCAAGCGCTCCGATGATATTCAG 831
871 GTGATATGATCAATGATATTTCTGTAAGAGGCTCAAGGCAAGCGCTCCGATGATATTCAG 930

QY	832	GTGGGACCCGAGAAAGAGATCATCATCAACAGCTGAGAGATGGAAAGTACAGGTAC	891
Dp	931	CGTGGCAACCGAANAGCATCATCTCAACAGCTGAGAGATGGAAAGTACAGGTAC	990
QY	892	CGGCGAAGCCAAAGCCCGCATGGACATTNAGTTNAGCGAAGACCTGTCTGATCCTGGTG	951
Dp	991	CGGCGAAGCCAAAGCCCGCATGGACATTNAGTTNAGCGAAGACCTGTCTGATCCTGGTG	1050
QY	952	GTGTGATCATCTGTGGGGGCCCTGTGCTTGCAATCATGNTGATGATGTCTTTGGGAG	1011
Dp	1051	GTGTTGATCATCTGTGGGGGCCCTGTGCTTGCAATCATGNTGATGATGTCTTTGGGAG	1110
QY	1012	ATGAACAAGCTCATTTAAGAAGCGGTGTTTGCATTTCTGCAGTATGCTCTGCTGCAACTCC	1071
Dp	1111	ATGAACAAGCTCATTTAAGAAGCGGTGTTTGCATTTCTGCAGTATGCTCTGCTGCAACTCC	1170
QY	1072	ACCGGAAGCCCATATCTATATGCTGTGAGAGATTAGAGACCTGCGACAAGCTTTCCGAGC	1131
Dp	1171	ACCGGAAGCCCATATCTATATGCTGTGAGAGATTAGAGACCTGCGACAAGCTTTCCGAGC	1230
QY	1132	ATGTTTCCCTCTTGTGAAGGCACTGCGAGCCTCTGATTAACAGCATGGGGAAGCTCGAGC	1191
Dp	1231	ATGTTTCCCTCTTGTGAAGGCACTGCGAGCCTCTGATTAACAGCATGGGGAAGCTCGAGC	1290
QY	1192	TGCGTCGACAAACCGCAACATGCGAGCCAGTGTTCACAGGCGCGGAAGCTGATC	1251
Dp	1291	TGCGTCGACAAACCGCAACATGCGAGCCAGTGTTCACAGGCGCGGAAGCTGATC	1350
QY	1252	AAGAGCAAGCTCAAGATTGCCAAGGTAAACAATGCTGTGTCCACAGACACGCTGCGAG	1311
Dp	1351	AAGAGCAAGCTCAAGATTGCCAAGGTAAACAATGCTGTGTCCACAGACACGCTGCGAG	1410
QY	1312	GCTCTGTGA	1320
Dp	1411	GCTCTGTGA	1419

RESULT 9	1419 bp	mRNA	linear	PRI 02-NOV-2005
BCI00969				
LOCUS				
DEFINITION				
<p> <i>Homo sapiens</i> cannabinoid receptor 1 (brain), transcript variant 1, mRNA (cDNA clone MGC:119259 IMAGE:40004975), complete cds. </p>				
ACCESSION				
<p> BCI00969 </p>				
VERSION				
<p> BCI00969.1 </p>				
KEYWORDS				
<p> MGC. </p>				
ORGANISM				
<p> <i>Homo sapiens</i> (human) </p>				
REFERENCE				
<p> 1 (bases 1 to 1419) </p>				
<p> Struhsberg,R.L., Feingold,E.A., Grouse,L.H., Derge,J.G., Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D., Altschul,S.F., Zeeberg,B., Butow,K.H., Schaefer,C.F., Bhat,N.K., Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Heide,F., Datchenko,L., Marsina,K., Farmer,A.A., Rubin,G.M., Hong,L., Sleatman,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L., Scheetz,T.E., Brownstein,M.J., Udell,T.B., Toshiyuki,S., Caminci,F., Prange,C., Raha,S.S., Loquellano,N.A., Peters,G.U., Abramson,R.D., Mullaly,S.J., Bosak,S.A., McEwan,P.J., McCorman,K.J., Malek,J.A., Gunaratne,P.H., Richards,S., Woley,K.C., Hale,S., Garcia,A.M., Gay,L.J., Huik,S.W., Villalon,D.K., Muzny,D.M., Sodergren,E.J., Lu,X., Gibbs,R.A., Pahey,J., Helton,E., Kettman,M., Madan,A., Rodriguez,S., Sanchez,A., Whiting,M., Madan,A., Young,A.C., Shevchenko,Y., Bouffard,G.G., Blakesley,R.W., Touchman,J.W., Green,E.D., Buckton,M.C., Rodriguez,A.C., Grimwood,J., Schmutz,J., Myers,R.M., Buttefield,Y.S., Krzywinski,M.I., Skalska,U., Smalls,D.E., Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A. </p>				
CONSTRM				
<p> Mammalian Gene Collection Program Team </p>				
TITLE				
<p> human and mouse cDNA sequences </p>				
JOURNAL				
<p> Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002) </p>				

FEATURES	Source	Location/Qualifiers
1. 1419	/organism="Homo sapiens"	
	/mol_type="mRNA"	
	/db_xref="taxon:9606"	
	/clone="MGC:119259 IMAGE:4004975"	
	/tissue_type="PCR rescued clones"	
	/clone_id="N1H_MGC_283"	
	/note="Vector: PCR-BIUNT II-TOPO with reversed insert; Clone identification sequence tag: GACCAATT sequenced from the reverse primer"	
1. 1419	/gene="CNR1"	
	/note="Synonyms: CB-R, CB1, CANNE, CB1A, CB1K5"	
	/db_xref="GeneID:1268"	
	/db_xref="MIM:114610"	
1. 1419	/gene="CNR1"	
	/codon_start=1	
	/product="central cannabinoid receptor, isoform a"	
	/protein_id="AA100970.1"	
	/db_xref="GI:71680857"	
	/db_xref="GeneID:1268"	
	/db_xref="MIM:114610"	
	/translation="MKSILDLGLADTFRITITDILLYVGSNDIOYEDIKEDMAGLGYF POKPLFSPFGSPFOEKMTAGNDPOVLPDQVITFEYNKSLSPFENENEDIOGNF MDIECFVNLPSQOLAIAVSLTLGTFVTELVLCVILHSRLCRPSYHIGSLA VADLGGVIFVYSFIDFHPVHRKDSNVPLFKLGVTASPTASVGLPLTADRYISI HRLRAKRIYTRKAVARFCLMTGTLTIAVAVPLDGMNCEKLSQVSDIPLPHIDRYIL MFIIGTSTVLLFTIVAVATILMKASHAVRAITROKSIITHTSBDGKVOYTRPDQ ARNDIRIAKTLVILVALLICWGPPLAIINVDYDFGKNKLIKIVAFCSMLCLINSTV NPITVLRKDLNHAFRSMFPCSGTAPLQDNMSDCLHAKANNAAVSYHRAESCI KSTVIAKVTMSYSTDSAL"	
Query Match	95.3%;	Score 1257.8; DB 5; Length 1419;
Best Local Similarity	99.4%;	Pred. No. 0;
Matches 1262;	Conservative	0; Mismatches 7; Indels 0; Gaps 0;
ORIGIN		
52	ACTGACCTCGCTGGGAGTCCCTTCCAAAGAGAAGATGACGTCGGGAGACAACCCCAAGCTA	111
151	ACTTCTCTTTAGGGGAAGTCCCTTCCAGAGAAAGATGATCTGGGAGACAACCCCAAGCTA	210
112	GTCCACAGACCAAGGTGAACATTACAGATTTTAAACAACAAGTCTCTCTGTCCTTCAAG	171
211	GTCCACAGCAACCAAGGTGAACATTACAGATTTTAAACAACAAGTCTCTCTGTCCTTCAAG	270
172	GAGATGAGAGAAACATCCAGTGTGGGAGAACTTATGAGCATTAAGATGTTTCAATGCTC	231
271	GAGATGAGAGAAACATCCAGTGTGGGAGAACTTATGAGCATTAAGATGTTTCAATGCTC	330

OY	232	CTGAACCCACGACGACCTGCGCATTTGCAAGCTCTGTCCTCCACGCTGGGACCTTCAACG	291
Db	331	CTGAACCCACGACGACCTGCGCATTTGCAAGCTCTGTCCTCCACGCTGGGACCTTCAACG	390
OY	292	GTCCTGAGAAACCTCTCTGGTGTGTGACATCTCCACTCCCGGAGCCTCCGTCGACG	351
Db	391	GTCCTGAGAAACCTCTCTGGTGTGTGACATCTCCACTCCCGGAGCCTCCGTCGACG	450
OY	352	CCTTCTCTACCACTTCAATGGGACAGCTGGCGGTGGACACCTTCCTGGGAGGTGCATTTTT	411
Db	451	CCTTCTCTACCACTTCAATGGGACAGCTGGCGGTGGACACCTTCCTGGGAGGTGCATTTTT	510
OY	412	GTCCTACGCTTCAATTGACCTTCCACGCTGTCCACCGCAAGAATAGCGGCAAGCTGTCTTG	471
Db	511	GTCCTACGCTTCAATTGACCTTCCACGCTGTTCACCGCAAGAATAGCGGCAAGCTGTCTTG	570
OY	472	TTCAAACTGGGTGGGTCAACGGGCTCTTTCACCTGCTCCGTGGGAGGCTGTCTCTCA	531
Db	571	TTCAAACTGGGTGGGTCAACGGGCTCTTTCACCTGCTCCGTGGGAGGCTGTCTCTCA	630
OY	532	GCCATCGACAGGTATATATTCATTCACAGGCGCCCGGTGCTATTAAGAAATGTACACGAG	591
Db	631	GCCATCGACAGGTATATATTCATTCACAGGCGCCCGGTGCTATTAAGAAATGTACACAGG	690
OY	592	CCCAAGGCGGTGTAGCGCTTTTGGCTGTAGTGTGACCATAGCCATGTGATGCGCGTGTG	651
Db	691	CCCAAGGCGGTGTAGCGCTTTTGGCTGTAGTGTGACCATAGCCATGTGATGCGCGTGTG	750
OY	652	CCTCTCTCTGGGCTGGAACTGGGAGAACTGCATCTGTTTGTCTCAGACATTTTCCACAC	711
Db	751	CCTCTCTCTGGGCTGGAACTGGGAGAACTGCATCTGTTTGTCTCAGACATTTTCCACAC	810
OY	712	ATTGATGAACCTTACCTGTATGTTCTGTAGATCGGAGGTCAACAGGCTACTCTTCTGTATTC	771
Db	811	ATTGATGAACCTTACCTGTATGTTCTGTAGATCGGAGGTCAACAGGCTACTCTTCTGTATTC	870
OY	772	GTTATGCGGTACATGATATATTTCTCTGGAAGGCTCAACAGCCAGCGCTGCGATGATTCAG	831
Db	871	GTTATGCGGTACATGATATATTTCTCTGGAAGGCTCAACAGCCAGCGCTGCGATGATTCAG	930
OY	832	CGTGGCAACCCGGAAGAAGATCATATTCACACAGCTGTAGAGATGGGAAAGTTCAGGTGAC	891
Db	931	CGTGGCAACCCGGAAGAAGATCATATTCACACAGCTGTAGAGATGGGAAAGTTCAGGTGAC	990
OY	892	CGGCGACGACCAAGCCCGCATGAGCATTTAGTTAGTTCAGCAAGCCCTGTGCTGATCCTGTGTG	951
Db	991	CGGCGACGACCAAGCCCGCATGAGCATTTAGTTAGTTCAGCAAGCCCTGTGCTGATCCTGTGTG	1050
OY	952	GTTGTTGATCATCTGCTGTGGGGCCCTCTGCTTGCATCATGGTGTATGATGCTCTTTGGGAAG	1011
Db	1051	GTTGTTGATCATCTGCTGTGGGGCCCTCTGCTTGCATCATGGTGTATGATGCTCTTTGGGAAG	1110
OY	1012	ATGAACAAGCTCATTAAGAAGCGTGTTCGATTTCTGACAGTATGCTCTGCTGCTGAACCTC	1071
Db	1111	ATGAACAAGCTCATTAAGAAGCGTGTTCGATTTCTGACAGTATGCTCTGCTGCTGAACCTC	1170
OY	1072	ACCGTGAACCCCATCATCTATGCTCTGAGAGATTAAGACCTTGCACACGCTTTCCGAGC	1131
Db	1171	ACCGTGAACCCCATCATCTATGCTCTGAGAGATTAAGACCTTGCACACGCTTTCCGAGC	1230
OY	1132	ATGTTTCCCTCTTGTGAAGGACCTGCGGAGCCTCTGAGTAAACGATGAGGAGACCTCGGAC	1191
Db	1231	ATGTTTCCCTCTTGTGAAGGACCTGCGGAGCCTCTGAGTAAACGATGAGGAGACCTCGGAC	1290
OY	1192	TGCTCTGACAAACGCAAAACATGACAGCAAGTGTTCACAGGGCCGCAAGAAAGCTGCATC	1251
Db	1291	TGCTCTGACAAACGCAAAACATGACAGCAAGTGTTCACAGGGCCGCAAGAAAGCTGCATC	1350
OY	1252	AAGAGCAGGCTAAAGATTGCCAAGGTAAACATGTCTGTGTCCACAGACACGTTCTGCGAG	1311
Db	1351	AAGAGCAGGCTAAAGATTGCCAAGGTAAACATGTCTGTGTCCACAGACACGTTCTGCGAG	1410

QY	1312	GCTCTGCA	1320
Db	1411	GCTCTGCA	1419
RESULT 10			
LOCUS	BC074811	1492 bp	mRNA
DEFINITION	homo sapiens cannabinoid receptor 1 (brain), transcript variant 1, mRNA (cDNA clone MGC:103925 IMAGE:3091516), complete cds.		
ACCESSION	BC074811		
VERSION	BC074811.2		
KEYWORDS	MG.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniota; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.		
AUTHORS	1 (bases 1 to 1492)		
	Stranberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, P.S., Wagner, L., Sherman, C.M., Schuler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Heien, F., Ditchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Donald, M.F., Casavant, T.L., Steele, T.E., Brownstein, M.J., Ueding, T.B., Toshiyuki, S., Carinci, P., Prange, C., Raha, S.S., Loggellano, N.A., Peters, G.J., Abramson, R.D., Mullahy, S.J., Boes, S.A., McEwan, P.J., McKernan, K.U., Malek, J.A., Gunatene, P.H., Richards, S., Woley, K.C., Hale, S., Garcia, A.M., Gay, L.U., Hulyk, S.W., Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahy, J., Helton, E., Kettelman, M., Madan, A., Rodrigues, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bonfield, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butlerfield, J.S., Krzywinski, M.I., Skalska, U., Smalins, D.E., Schermer, A., Schein, J.B., Jones, S.U. and Maris, M.A.		
TITLE	Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences		
JOURNAL	Proc. Natl. Acad. Sci. U.S.A.	99 (26)	16899-16903 (2002)
PUBMED	12477932		
REFERENCE	2 (bases 1 to 1492)		
AUTHORS	Director MGC Project.		
TITLE	Direct Submission		
JOURNAL	Submitted (25-JUN-2004) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11M03, Bethesda, MD 20892-2590, USA		
REMARK	NIH-MGC Project URL: http://mgc.nci.nih.gov		
COMMENT	On Aug 4, 2004 this sequence version replaced gi:49901676.		
	Contact: MGC help desk		
	Email: cgapbs-rt@mail.nih.gov		
	Tissue Procurement: Genome Sequence Centre, British Columbia Cancer Center		
	cDNA library Preparation: British Columbia Cancer Research Center		
	cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LMN)		
	DNA Sequencing by: Genome Sequence Centre,		
	BC Cancer Agency, Vancouver, BC, Canada		
	info@pgsc.bc.ca		
	Steve Jones, Sarah Barber, Mabel Brown-John, Yaron Butlerfield, Andy Chan, Steve S. Chand, William Chow, Alison Cloutier, Ruth Featherstone, Malachi Griffith, Obi Griffith, Ran Guin, Nancy Liao, Kim MacDonald, Amara Masson, Mike R. Mayo, Josh Moran, Ryan Morin, Teika Olson, Diana Palmquist, Anna Petrescu, Anna Liisa Pirahu, Parvaneh Saeedi, Jr Santos, Angelique Scherch, Ursula Skalska, Duane Smalins, Jeff Stott, Miranda Teal, George Yang, Jacquie Schein, Aaim Siddiqui, Rob Holt, Marco Marra.		
	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/UMN at: http://image.llnl.gov		
	Series: IRBU Plate: 2 Row: E Column: 5.		
	Location/Qualifiers		
	1..1492		

```

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="MGC:103925 IMAGE:30915316"
/issue_type="Lung, PCR rescued clones"
/clone_id="NH_MGC_265"
/lab_host="DH10B"
/notes="Vector: pCR4 Topo TA"
1. 1492
/gene="CNR1"
/notes="Synonyms: CB-R, CBI, CANN6, CB1A, CB1K5, CNR"
/db_xref="GeneID:1268"
/db_xref="MIM:114610"
39. 1457
/gene="CNR1"
/codon_start=1
/product="central cannabinoid receptor, isoform a"
/protein_id="AAH7481.1"
/db_xref="GI:49901677"
/db_xref="GeneID:1268"
/db_xref="MIM:114610"
/translation="MKSITDGLADTTFRITTDLYVSNDIQIEDIKDMASKLGYE
PQKPLUTSRGSPQEKMTAGNLPOLVPADQVNIETEPYKSLSPKREBENIQCBENF
MDIEMVNLNPSQQLALAVLSLIGFTVLNMLVCLVLSRSLRCPSTHIFISIA
VADLGSVLFVYSFLIDFVHFKDSRNVLFLGGVYASFTASVGSFLFLIDRYISI
HRPLAYKRIYTRPKAVAFCLMNTTAVIVAVLPIGNGEKIIOVSCSDIRPHIDETYL
MMIGVTSVLLPFIYAYNYIIMKASHAVKRIQRTGKSLIITHSBDKVOVTPDO
ARMIDRLAKTIVLIVLITCMGPLAIWVYVFGMNKLIITVAFCSMLCLINSTV
NPDIYALRSKDRHAFRSMFSCBGTAPOLDNSMGSDCLHGHANNAASVHRAASCI
KSTVIKIAKTVMSVSTDSAEAL"

ORIGIN
Query Match      95.3%; Score 1257.8; DB 5; Length 1492;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1462; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

52  ACTGACCTCTGGAAGTCCCTTCCAGAGATGACCTGCGGAGACACCCCGACGTA 111
189  ACTTCTTTAGGAGAGTCCCTTCCAGAGAGATGACCTGCGGAGACACCCCGACGTA 248
112  GTCCGAGCAGCAGGATGACATTAAGAAATTTTACACAGAGTCTCTCGTCTTCAAG 171
249  GTCCGAGCAGCAGGATGACATTAAGAAATTTTACACAGAGTCTCTCGTCTTCAAG 308
172  GAGAAATGAGAGAACATTCAGATGTGGGAGAACTTCATGACACATAGAGTGTTCATGTC 231
309  GAGAAATGAGAGAACATTCAGATGTGGGAGAACTTCATGACACATAGAGTGTTCATGTC 368
232  CTGAACCCGAGCAGACAGCTGGCCATTTGAGATCTGTCCCTGACCGTGGGACCTTCAG 291
369  CTGAACCCGAGCAGACAGCTGGCCATTTGAGATCTGTCCCTGACCGTGGGACCTTCAG 428
292  GTCTGAGAGAACTCTCTGTGTGTGCTCATCTCTCCACCTCCGAGACCTCCGCTGACAG 351
429  GTCTGAGAGAACTCTCTGTGTGTGCTCATCTCTCCACCTCCGAGACCTCCGCTGACAG 488
352  CTTTCTTACCACTTATCGGAGCCTGTGGGTGGGAGACCTCTCTGGGAGGTGTCAATTTT 411
489  CTTTCTTACCACTTATCGGAGCCTGTGGGTGGGAGACCTCTCTGGGAGGTGTCAATTTT 548
412  GTCTACAGCTTATGACCTTCCAGATGTTCACCCGAAAGATAGCCGCAACCTGTTTCTG 471
549  GTCTACAGCTTATGACCTTCCAGATGTTCACCCGAAAGATAGCCGCAACCTGTTTCTG 608
472  TTCAAACTGGTGGGTGACGGCTCTCTTCACTGCTCCGTGGGAGCCTGTTTCTTCA 531
609  TTCAAACTGGTGGGTGACGGCTCTCTTCACTGCTCCGTGGGAGCCTGTTTCTTCA 668
532  GCCATGACAGGTACATATTCATTCACAGGCCCTCTGGCTATTAAGAGATTGTCAACAG 591
669  GCCATGACAGGTACATATTCATTCACAGGCCCTCTGGCTATTAAGAGATTGTCAACAG 728
592  CCCAAGGCGGTGTAGCGTTTGGCTGATGTGGAACCATAGCCATGTGTATGCGCGTGTG 651

```

```

729  CCCAAGGCGGTGTAGCGTTTGGCTGATGTGGAACCATAGCCATGTGTATGCGCGTGTG 788
652  CCTTCTCTGGGTGAGACCTGCGAGAACTGCAATCTGTTTGTCTCAGACATTTTCCACAC 711
789  CCTTCTCTGGGTGAGACCTGCGAGAACTGCAATCTGTTTGTCTCAGACATTTTCCACAC 848
712  ATTGATGAACCTACCTGATGTTCGGAATCGGGGTGACCAAGGTATCTGCTCTGTCAAC 771
849  ATTGATGAACCTACCTGATGTTCGGAATCGGGGTGACCAAGGTATCTGCTCTGTCAAC 908
772  GTGTATGCTATCATATGATATATCTCTGGAAGCTCAGACGACGCTCCGATGATTGAC 831
909  GTGTATGCTATCATATGATATATCTCTGGAAGCTCAGACGACGCTCCGATGATTGAC 968
832  CGTGGACCCGAGAGAGCATCATTCACACGCTCTGAGAGATGGAGAGTACAGGTGACC 891
969  CGTGGACCCGAGAGAGCATCATTCACACGCTCTGAGAGATGGAGAGTACAGGTGACC 1028
892  CGGCGACAGCAAGCCCGCATGACATTAAGTATAGCCAGAACCTCTGTCTGATCCTGTG 951
1029  CGGCGACAGCAAGCCCGCATGACATTAAGTATAGCCAGAACCTCTGTCTGATCCTGTG 1088
952  GTGTATCATATGCTGTGGGACCTCTGCTTGCATCATGATGATGATGATGATGATGATG 1011
1089  GTGTATCATATGCTGTGGGACCTCTGCTTGCATCATGATGATGATGATGATGATGATG 1148
1012  ATGAACAGCTCATTAAGACGCTGTGTGATCTGACAGTATGCTGCTGCTGTAATCTC 1071
1149  ATGAACAGCTCATTAAGACGCTGTGTGATCTGACAGTATGCTGCTGCTGTAATCTC 1208
1072  ACCGTGAACCCCATCATATGATCTGAGAGATTAAGACCTGCGACACGCTTCCGAGAC 1131
1209  ACCGTGAACCCCATCATATGATCTGAGAGATTAAGACCTGCGACACGCTTCCGAGAC 1268
1132  ATGTTTCCCTCTTGGAGAGGACCTGCGACGCTCTGAGTAACAGATGGGGGACCTCGAC 1191
1268  ATGTTTCCCTCTTGGAGAGGACCTGCGACGCTCTGAGTAACAGATGGGGGACCTCGAC 1328
1192  TGCCTGCAACAAACGCAACATGACAGCAGTGTTCACAGGGCCGCAAGAAAGCTGACATC 1251
1329  TGCCTGCAACAAACGCAACATGACAGCAGTGTTCACAGGGCCGCAAGAAAGCTGACATC 1388
1252  AAGAGCAGGTGACAGATTGCGAAGGTAAACATGTCTGTGTCCACAGACACGCTGCGAG 1311
1389  AAGAGCAGGTGACAGATTGCGAAGGTAAACATGTCTGTGTCCACAGACACGCTGCGAG 1448
1312  GCTCTGTGA 1320
1449  GCTCTGTGA 1457

RESULT 11
BC074812      1492 bp      mRNA      linear      PRI 16-AUG-2004
LOCUS      Homo sapiens cannabinoid receptor 1 (brin), transcript variant 1,
DEFINITION      mRNA (cDNA clone MGC:104081 IMAGE:30915332), complete cds.
ACCESSION      BC074812
VERSION      BC074812.2  GI:50960443
KEYWORDS      MGC.
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominae; Homo.
1 (bases 1 to 1492)
Strausberg,R.L., Reingold,B.A., Grouse,L.H., Derge,J.G.,
Klausner,R.D., Collins,F.S., Wagner,L., Shenmen,C.M., Schuler,G.D.,
Altschul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K.,
Hopkins,R.F., Jordan,H., Moore,T., Max,S.I., Wang,J., Hsieh,F.,
Diatchenko,L., Marusina,K., Farmer,A.A., Rubin,G.M., Hong,L.,
Stapleton,M., Soares,M.B., Bonaldo,M.F., Casavant,T.L.,
Schaefer,T.E., Brownstein,M.J., Udgin,T.B., Toshiyuki,S.,

```

TITLE
JOURNAL
PUBMED
REFERENCE
AUTHORS
TITLE
JOURNAL

REMARK
COMMENT

FEATURES
SOURCE

gene

CDS

Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
Abramson, R.D., Mullaly, S.J., Bosak, S.A., McEwan, P.J.,
McKernan, R.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,
Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Foley, J., Helton, E., Kettelman, M., Madan, A., Rodriguez, S.,
Sanchez, A., Whiting, M., Madan, A., Young, A.C., Scherchenko, Y.,
Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmitt, J., Myers, R.M.,
Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smalls, D.E.,
Scherchen, A., Schein, J.E., Jones, S.J., and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
12477932
2 (bases 1 to 1492)
Director MGC Project.
Direct Submission
Submitted (25-JUN-2004) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NIH-MGC Project URL: <http://mgc.nci.nih.gov>
On Aug 4, 2004 this sequence version replaced gi:49902499.
Contact: MGC help desk
Email: cgapbs-remail.nih.gov
Tissue Procurement: Genome Sequence Centre, British Columbia Cancer
Center
CDNA Library Preparation: British Columbia Cancer Research Center
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Genome Sequence Centre,
BC Cancer Agency, Vancouver, BC, Canada
info@cgsc.bc.ca
Steve Jones, Sarah Barber, Mabel Brown-John, Yaron Butterfield,
Andy Chan, Steve S. Chand, William Chow, Alison Cloutier, Ruth
Featherstone, Malachi Griffith, Odi Griffith, Ran Guin, Nancy Liao,
Kim MacDonald, Amara Masson, Mike R. Mayo, Josh Moran, Ryan Morin,
Telka Olson, Diana Palmquist, Anca Petrescu, Anna Lissa Prabhu,
Parvaneh Saeedi, JR Santos, Angelique Scherchen, Ursula Skalska,
Duane Smalls, Jeff Stott, Miranda Tsai, George Yang, Jacquie
Schein, Asim Siddiqui, Rob Holt, Marco Marra.
Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LNL at: <http://image.lnl.gov>
Series: IRBU Plate: 4 Row: G Column: 5.
Location/Qualifiers
1..1492
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="MGC:104081 IMAGE:30915532"
/issue_type="lung, PCR rescued clones"
/clone_1fb="NIH MGC_265"
/lab_host="DH10B"
/note="Vector: pCR4 Topo TA"
1..1492
/gene="CNR1"
/note="synonyms: CB-R, CB1, CANN6, CB1A, CB1S, CNR"
/db_xref="GeneID:1268"
/db_xref="MIM:114610"
39..1457
/gene="CNR1"
/codon_start=1
/product="central cannabinoid receptor, isoform a"
/protein_id="AAH74812.1"
/db_xref="GI:49902500"
/db_xref="GeneID:1268"
/db_xref="MIM:114610"
/translation="MKSILDGLADPTFRITITDLVYGSNDIOVEDIKGNASKLGYF
PKPPLTSPRSGPFOEKRTAGNPNQIVPDDQNTIFPKSLSSKREBNIOCCNEF
MDIECPVNLNPSQQLAIVLSLTGTFVLEMLVLCVILHSRSRCPSPHYFISLA
VADLLGSVIFVPSFIDFVFRKDSRNVELFKIGVTVASFTASVSLPFTALDRYISI
HRLPLVKRIVTRPKAVVAFCLMWTIAIVAVPLIGMNCCKIOSCSDFPHIDETYL

ORIGIN

Query Match 95.3%; Score 1257.8; DB 5; Length 1492;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1262; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

MFWIGTVSVLLPIFYAVMYILMKASHAVRMIOGTOKSIIHTSDGKVQVTRPD
ARMIDIRAKITLVILVLLICWGBLAIWYDVFGKKNKILITVFACSMICLNTSTV
NPILYALRSQDLRAFRSPSPSCGTAQPLDWSGSDCLHKHANNNAVSRAESCI
KSTYKIAKVTMSVSTDISAEL"

52 ACTGACCTCTCGGGAAGTCCCTTCCAGAGAAATGACTGGGGAGAACACCCAGCTA 111
189 ACTTCCTTTAGGGGAAGGCCCTTCCAGAGAAATGACTGGGGAGAACACCCAGCTA 248
112 GTCCAGCAGACAGGTGAACATTACAGAAATTTTACACAAGTCTCTCTGCTTCAAG 171
249 GTCCAGCAGACAGGTGAACATTACAGAAATTTTACACAAGTCTCTCTGCTTCAAG 308
172 GAGATGAGAGAAATTCAGATGTGGGAGAACTTCATGACATAGATGTTTATGAGTC 231
309 GAGATGAGAGAAATTCAGATGTGGGAGAACTTCATGACATAGATGTTTATGAGTC 368
232 CTGAACCCGACGACGAGCTGGCCATTGCACTCTGTCCTTCAAGCTGGACCTTCAAG 291
369 CTGAACCCGACGACGAGCTGGCCATTGCACTCTGTCCTTCAAGCTGGACCTTCAAG 428
292 GTCCGAGAGAACTCTGAGTGTGAGTCAATCTTCACTCCGACGCTCCGCTGACAG 351
429 GTCCGAGAGAACTCTGAGTGTGAGTCAATCTTCACTCCGACGCTCCGCTGACAG 488
352 CTTCTCAACAATTATGAGGAGGCTGGCGGTGGCAAGCTCTGGGGAGTGTCAATTTT 411
489 CTTCTCAACAATTATGAGGAGGCTGGCGGTGGCAAGCTCTGGGGAGTGTCAATTTT 548
412 GTCTACAGCTTATGACTTCTTCAAGTGTTCACACCGCAAGATACCGCAAGTGTTCG 471
549 GTCTACAGCTTATGACTTCTTCAAGTGTTCACACCGCAAGATACCGCAAGTGTTCG 608
472 TTCAAACTGGGTGGGTGACGAGGCTCTTCACTGCTCCGAGGAGGCTGTCTCTACA 531
609 TTCAAACTGGGTGGGTGACGAGGCTCTTCACTGCTCCGAGGAGGCTGTCTCTACA 668
532 GCATTCGACAGTATATATTCATTCACAGGCGCTTGTATTAAGAGATTGTACACAG 591
669 GCATTCGACAGTATATATTCATTCACAGGCGCTTGTATTAAGAGATTGTACACAG 728
592 CCCAAGCGCGTGTGAGCGTTTGGCTGTATGTGACCATAGCATTTGTATGCGGTG 651
729 CCCAAGCGCGTGTGAGCGTTTGGCTGTATGTGACCATAGCATTTGTATGCGGTG 788
652 CCTCTCCGCGGTGGAATCTGGAGAAATGCAATCTGTTTCTCAGACATTTTCCACAC 711
789 CCTCTCCGCGGTGGAATCTGGAGAAATGCAATCTGTTTCTCAGACATTTTCCACAC 848
712 ATTGATGAACCTTACCTGATGTTTGTGATTCGAGGCTCACAGCGTACTGCTTCAATC 771
849 ATTGATGAACCTTACCTGATGTTTGTGATTCGAGGCTCACAGCGTACTGCTTCAATC 908
772 GTGTATGCGTACATGATATATTTCTCTGGAAGCTCACAGCGCGCTGCGATGATTCAG 831
909 GTGTATGCGTACATGATATATTTCTCTGGAAGCTCACAGCGCGCTGCGATGATTCAG 968
832 CGTGACACCGAAGAGATCATATCCACAGTCTGAGATGGGAAGGTACAGGTGACG 891
969 CGTGACACCGAAGAGATCATATCCACAGTCTGAGATGGGAAGGTACAGGTGACG 1028
892 CGGCGACGACCAAGCCCGATGACATTAAGTTAGCCAAAGACCTGTGCTTCAATCTGTG 951
1029 CGGCGACGACCAAGCCCGATGACATTAAGTTAGCCAAAGACCTGTGCTTCAATCTGTG 1088
952 GTGTGATCATCTGTGCGGGGCCCTCTGCTTCAATCATGATGATGATGATGATGATG 1011
1089 GTGTGATCATCTGTGCGGGGCCCTCTGCTTCAATCATGATGATGATGATGATGATG 1148

Qy	1012	ATGAAACAAGCTCATTTAAGAAGGGTGTGGATCTCTGCAAGTAAAGCTCTGCTGTAACCTCC	1071
Db	1149	ATGAAACAAGCTCATTTAAGAAGGGTGTGGATCTCTGCAAGTAAAGCTCTGCTGTAACCTCC	1208
Qy	1072	ACCGTAACCCCATCATCTATCTCTGAGGATGAAGAAGCATCTGGACACAGCTTTCGGAGC	11311
Db	1209	ACCGTAACCCCATCATCTATCTCTGAGGATGAAGAAGCATCTGGACACAGCTTTCGGAGC	12686
Qy	1132	ATGTTTCCCTCTTGTGAAGGCACTGGCAGCCTCTGAAATTAACAGCATGAGGAGACTCGAGC	11911
Db	1269	ATGTTTCCCTCTTGTGAAGGCACTGGCAGCCTCTGAAATTAACAGCATGAGGAGACTCGAGC	13288
Qy	1192	TGCGTCGACAAACAGGCAAAATGACAGCAAGTGTTCACAGGAGCGGAGAAAGCTGCATC	1251
Db	1329	TGCGTCGACAAACAGGCAAAATGACAGCAAGTGTTCACAGGAGCGGAGAAAGCTGCATC	13988
Qy	1252	AAGACACCGGTCAAGATTGCCAAGGTAAACAATGTCTGTGTCCACAGACAGCTCTGCCAG	13111
Db	1389	AAGACACCGGTCAAGATTGCCAAGGTAAACAATGTCTGTGTCCACAGACAGCTCTGCCAG	1448
Qy	1312	GCTCTGTGA	1320
Db	1449	GCTCTGTGA	1457
RESULT 12			
LOCUS	CQ725118	1631 bp	DNA
DEFINITION	Sequence 11052 from Patent WO02068579.	linear	PAT 03-FEB-2004
ACCESSION	CQ725118		
VERSION	CQ725118.1	GI:42285975	
KEYWORDS			
SOURCE			
ORGANISM	Homo sapiens (human)		
	Homo sapiens		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.		
REFERENCE			
AUTHORS	1		
TITLE	Venter,C.J., Adams,M.C., Li,P.W. and Myers,E.W.		
	Kites, such as nucleic acid arrays, comprising a majority of humenexons or transcripts, for detecting expression and other uses thereof		
JOURNAL	Patent: WO 02068579-A 11052 06-SEP-2002;		
PEERREVIEW	PE Corporation (NY) (US)		
FEATURES			
source	Location/Qualifiers		
	1..1631		
	/organism="Homo sapiens"		
	/mol_type="unassigned DNA"		
	/db_xref="taxon:9606"		
ORIGIN			
	Query Match	95.3%; Score 1257.8; DB 2; Length 1631;	
	Best Local Similarity	99.4%; Pred. No. 0;	
	Matches 1262; Conservative 0; Mismatches 7; Indels 0; Gaps 0;		
Qy	52	ACTGACCTCTCGGGAGTCCCTTCCAGAGAGATGACTGGGGAGCAACCCCACTA	111
Db	215	ACTTCCTTTAAGGGAGTCCCTTCCAGAGAGATGACTGGGGAGCAACCCCACTA	274
Qy	112	GTCCAGACGACCAAGGTAACTTACAGATTTTACAAAGAATCTCTGCTCTTCAAG	171
Db	275	GTCCAGACGACCAAGGTAACTTACAGATTTTACAAAGAATCTCTGCTCTTCAAG	334
Qy	172	GAGAAATGAGGAACATCTCAATGTGGGGAGAACTTACGACATAGAGTGTTCATGTC	231
Db	335	GAGAAATGAGGAACATCTCAATGTGGGGAGAACTTACGACATAGAGTGTTCATGTC	394
Qy	232	CTGAACCCCAAGCAGAGCTGGCAATTCCTGTCCTCCACAGCTGGGACCTTCAAG	291
Db	395	CTGAACCCCAAGCAGAGCTGGCAATTCCTGTCCTCCACAGCTGGGACCTTCAAG	454
Qy	292	GTCTCGAAGAACTTCCTGAGCTGTGCGTCACTCTCCACCTCCGCAAGCTTCGCTGAGG	351

Db	455	GTCTCTGGAGAACCTCTCGGTGCTGTGCTGATCTCTCCATCTCCGCAAGCCTCCGCTGCAGG	514
QY	352	CCTTCTTACCACTTCAATCGGCAAGCTGCGGTGTGCAAGACCTCTCGGGAGGTGCATTTTT	411
Db	515	CCCTCTTACCACTTCAATCGGCAAGCTGCGGTGTGCAAGACCTCTCGGGAGGTGCATTTTT	574
QY	412	GTCTACAGCTTACATTAAGCTTCAACGTGTCCACCCGAAAGATTAAGCGCAACGTTTCTG	471
Db	575	GTCTACAGCTTACATTAAGCTTCAACGTGTGTCCACCCGAAAGATTAAGCGCAACGTTTCTG	634
QY	472	TTCAAACTGGAGTGGGGTCAACGCTCTCTTCACTGCTCCGTGGGCAAGCTGTCTCACA	531
Db	635	TTCAAACTGGAGTGGGGTCAACGCTCTCTTCACTGCTCCGTGGGCAAGCTGTCTCACA	694
QY	532	GGCATTCGACAGGTATCATATCCATTCAACAGGCCCTGGCTTAAAGAGATTGTCAACAG	591
Db	695	GGCATTCGACAGGTATCATATCCATTCAACAGGCCCTGGCTTAAAGAGATTGTCAACAG	754
QY	592	CCCAAGGCGGTGTAGCGTTTGTCCGTAATGTGACCAATGACCAATGTGATTCGCGGTG	651
Db	755	CCCAAGGCGGTGTAGCGTTTGTCCGTAATGTGACCAATGACCAATGTGATTCGCGGTG	814
QY	652	CCTCTCTCGGCTGGAACCTGCGAAGAACTGCAATCTGTTTGTCTCAAGCAATTTTCCACAC	711
Db	815	CCCTCTCTCGGCTGGAACCTGCGAAGAACTGCAATCTGTTTGTCTCAAGCAATTTTCCACAC	874
QY	712	ATTGATGAACCTACTCTGATGTGTTCTGGATCGGGGGTCAACAGGATCTGCTCTGTTCAAC	771
Db	875	ATTGATGAACCTACTCTGATGTGTTCTGGATCGGGGGTCAACAGGATCTGCTCTGTTCAAC	934
QY	772	GTGTAATGCGTACATGTATATTTCTCTGGAAGGCTCAACAGCAAGCGCTCCGCAATGATTCA	831
Db	935	GTGTAATGCGTACATGTATATTTCTCTGGAAGGCTCAACAGCAAGCGCTCCGCAATGATTCA	994
QY	832	CGTGGCACTCCAGAAAGCATCATATCCACAGCTGTGAAGATGGAAAGGTACAGGTAC	891
Db	995	CGTGGCACTCCAGAAAGCATCATATCCACAGCTGTGAAGATGGAAAGGTACAGGTAC	1055
QY	892	CGGCAAGCAAGCCGCAATGGAATTAAGTTAAGCCAGAAACCTGATCTGATCCTGGTG	951
Db	1055	CGGCAAGCAAGCCGCAATGGAATTAAGTTAAGCCAGAAACCTGATCTGATCCTGGTG	1111
QY	952	GTGTGATCATCTGCTGGGAGCCCTCTGCTTGCATCATGTGTATGATGTCTTTGGGAAG	1011
Db	1115	GTGTGATCATCTGCTGGGAGCCCTCTGCTTGCATCATGTGTATGATGTCTTTGGGAAG	1174
QY	1012	ATGAACAAGCTCATTAAGAAGTGTTCATTTGCAATGACATGATGCTGCTGCTGAACCTCC	1077
Db	1175	ATGAACAAGCTCATTAAGAAGTGTTCATTTGCAATGACATGATGCTGCTGCTGAACCTCC	1233
QY	1072	ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAAGCACTGCGACAAGCTTTCCGAGAC	1133
Db	1235	ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAAGCACTGCGACAAGCTTTCCGAGAC	1299
QY	1132	ATGTTTCCCTCTTTTGAAGGCACTGCGCAAGCTCTGTGAATAACGATGGGGAGCTCGGAC	1197
Db	1295	ATGTTTCCCTCTTTTGAAGGCACTGCGCAAGCTCTGTGAATAACGATGGGGAGCTCGGAC	1355
QY	1192	TGCTGCACAACACGCAAAACAATGACAGCAAGTGTTCACAGGGCCGCAAGAAAGCTGCATC	1255
Db	1355	TGCTGCACAACACGCAAAACAATGACAGCAAGTGTTCACAGGGCCGCAAGAAAGCTGCATC	1411
QY	1252	AAAGACACGGTCAAGATTGCCAAGGTAAACAATGTCTGTCTCACAGACAGCTTCCGAG	1311
Db	1415	AAAGACACGGTCAAGATTGCCAAGGTAAACAATGTCTGTCTCACAGACAGCTTCCGAG	1474
QY	1312	GCTCTGTGA 1320	
Db	1475	GCTCTGTGA 1483	

CS207294 LOCUS CS207294 1755 bp DNA linear PAT 08-DEC-2005
DEFINITION Sequence 2 from Patent WO2005109000.
ACCESSION CS207294
VERSION CS207294.1 GI:83413202
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens (human)
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE
1 Spittaels, K.F.
AUTHORS Patent: WO 2005109000-A 2 17-NOV-2005;
JOURNAL Genomics N.V. (BE); Spittaels, Koenraad Frederick F. (BE)
FEATURES
LOCATION/Qualifiers
source 1..1755
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
ORIGIN
Query Match 95.3%; Score 1257.8; DB 2; Length 1755;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1262; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
52 ACTGACCTCTGGGAAATCCCTTCCAGAGAAAGATGATGCGGGAGACACCCCAAGCTA 111
112 GTCCAGAGACCAAGTGAACATTAAGAAATTTTCAACAAGCTCTCTCGGCTTCAAG 171
112 GTCCAGAGACCAAGTGAACATTAAGAAATTTTCAACAAGCTCTCTCGGCTTCAAG 171
359 GTCCAGAGACCAAGTGAACATTAAGAAATTTTCAACAAGCTCTCTCGGCTTCAAG 418
172 GAGAAATGAGAGAAATCATCAAGTGTGGGAGAACTTCATGACATAGAGTGTTCATGTC 231
419 GAGAAATGAGAGAAATCATCAAGTGTGGGAGAACTTCATGACATAGAGTGTTCATGTC 478
232 CTGAAACCCAGCAGAGAGTGGCAATTTGAGTCTGTCTCTCAAGCTGGGACCTTCAAG 291
479 CTGAAACCCAGCAGAGAGTGGCAATTTGAGTCTGTCTCTCAAGCTGGGACCTTCAAG 538
292 GTCCAGAGACCAAGTGAACATTAAGAAATTTTCAACAAGCTCTCTCGGCTTCAAG 351
539 GTCCAGAGACCAAGTGAACATTAAGAAATTTTCAACAAGCTCTCTCGGCTTCAAG 598
352 CTTTCTCAACATTCATGCGCAGCCTGTGGGAGAGACCTTCCTGGAGAGTGTCAATTTT 411
599 CTTTCTCAACATTCATGCGCAGCCTGTGGGAGAGACCTTCCTGGAGAGTGTCAATTTT 658
412 GTCTACAGCTTATGATCTTCCAGTGTTCACCGCAAGAGATAGCCGCAAGTGTTCG 471
659 GTCTACAGCTTATGATCTTCCAGTGTTCACCGCAAGAGATAGCCGCAAGTGTTCG 718
472 TTCAAACTGGGAGGAGTCAAGGCTCTCTCACTGCGCTCGGAGGAGGAGCTGTTCCTCA 531
719 TTCAAACTGGGAGGAGTCAAGGCTCTCTCACTGCGCTCGGAGGAGGAGCTGTTCCTCA 778
532 GCCATCGACAGGTACATATCATTCACAGGCCCCCTGGCCTATTAAGAGATGTCCACAG 591
779 GCCATCGACAGGTACATATCATTCACAGGCCCCCTGGCCTATTAAGAGATGTCCACAG 838
552 CCCAAGGCGGTGTAGCGTTTGGCTGATGTGACATATGCAATTTGTATGCCGCTGCTG 651
839 CCCAAGGCGGTGTAGCGTTTGGCTGATGTGACATATGCAATTTGTATGCCGCTGCTG 898
652 CTTCTCTGGGCTGGAACCTGAGAAACGCAATGTTTGTGCTGAGCAATTTTCCACAG 711
899 CTTCTCTGGGCTGGAACCTGAGAAACGCAATGTTTGTGCTGAGCAATTTTCCACAG 958
712 ATTGATGAACCTACCTGATGTTCTGATCGGGGTCAACAGAGTACTGCTTCTGTTCAATC 771
959 ATTGATGAACCTACCTGATGTTCTGATCGGGGTCAACAGAGTACTGCTTCTGTTCAATC 1018

QY 772 GTGATGCGTACATGATATATTTCTGGAAGGCTCAAGCCAGCCGCTCCGATGATTTCAG 831
DB 1019 GTGATGCGTACATGATATATTTCTGGAAGGCTCAAGCCAGCCGCTCCGATGATTTCAG 1078
QY 832 CGTGGACCCGAGAGAGATCATCATCAAGCTGTGAGATGGGAGGTACAGGTGACC 891
DB 1079 CGTGGACCCGAGAGAGATCATCATCAAGCTGTGAGATGGGAGGTACAGGTGACC 1138
QY 892 CGGCGAGACCAAGCCCGCATGAGATTAAGTTAGCCAAAGACCTGTCTTGATCTGGTG 951
DB 1139 CGGCGAGACCAAGCCCGCATGAGATTAAGTTAGCCAAAGACCTGTCTTGATCTGGTG 1198
QY 952 GTGTTGATCATCTGTGGGGCCCTCTGTTGCAATCATGTGTATGATGTTTGGAGAG 1011
DB 1199 GTGTTGATCATCTGTGGGGCCCTCTGTTGCAATCATGTGTATGATGTTTGGAGAG 1258
QY 1012 ATGAACAAAGCTCATTAAGACGGTGTTCATTTCTGAGATAGCTCTGCTGTAACCTCC 1071
DB 1259 ATGAACAAAGCTCATTAAGACGGTGTTCATTTCTGAGATAGCTCTGCTGTAACCTCC 1318
QY 1072 ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAAGACCTGCGACACGCTTTCGAGC 1131
DB 1319 ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAAGACCTGCGACACGCTTTCGAGC 1378
QY 1132 ATGTTTCCCTTGTGGAAGGACATGCGGCTCTGATTAACAGCATGGGGAGACTCGAC 1191
DB 1379 ATGTTTCCCTTGTGGAAGGACATGCGGCTCTGATTAACAGCATGGGGAGACTCGAC 1438
QY 1192 TGCCGTGACAAACAGCAACATGACAGCAGTGTTCACAGGGCCGAGAAAGCTGCATC 1251
DB 1439 TGCCGTGACAAACAGCAACATGACAGCAGTGTTCACAGGGCCGAGAAAGCTGCATC 1498
QY 1252 AAGACAGGTCAAGATTTCCAGAGTAAACATGCTGTGTCCACAGACAGTTCGCGAG 1311
DB 1499 AAGACAGGTCAAGATTTCCAGAGTAAACATGCTGTGTCCACAGACAGTTCGCGAG 1558
QY 1312 GCTCTGTGA 1320
DB 1559 GCTCTGTGA 1567
RESULT 14
AX548798 1755 bp DNA linear PAT 26-NOV-2002
LOCUS AX548798
DEFINITION Sequence 83 from Patent WO2061087.
ACCESSION AX548798
VERSION AX548798.1 GI:25813708
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens (human)
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE
1 Butner, G.C., Roush, C.L. and Brown, J.P.
AUTHORS Antigenic peptides, such as for G protein-coupled receptors
TITLE (GPCRs), antibodies thereto, and systems for identifying such
JOURNAL antigenic peptides
Patent: WO 02061087-A 83 08-AUG-2002;
Lifespan Biosciences, Inc. (US)
FEATURES
source 1..1755
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
ORIGIN
Query Match 95.3%; Score 1257.8; DB 2; Length 1755;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1262; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
52 ACTGACCTCTGGGAAATCCCTTCCAGAGAAAGATGATGCGGGAGACACCCCAAGCTA 111

mat_peptide 149..1564
/gene="GBS08"
/product="canabinoid receptor"
misc_feature 377..379
/gene="GBS08"
/note="putative glycosylation site"
misc_feature 397..399
/gene="GBS08"
/note="putative glycosylation site"
misc_feature 482..484
/gene="GBS08"
/note="putative glycosylation site"
misc_feature 497..574
/gene="GBS08"
/note="putative transmembrane segment"
misc_feature 611..673
/gene="GBS08"
/note="putative transmembrane segment"
misc_feature 710..784
/gene="GBS08"
/note="putative transmembrane segment"
misc_feature 845..916
/gene="GBS08"
/note="putative transmembrane segment"
misc_feature 971..1045
/gene="GBS08"
/note="putative transmembrane segment"
misc_feature 1187..1243
/gene="GBS08"
/note="putative transmembrane segment"
misc_feature 1280..1345
/gene="GBS08"
/note="putative transmembrane segment"

ORIGIN

Query Match 95.3%; Score 1257.8; DB 5; Length 1755;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1262; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 52 ACTGACCTCTGGGAAAGTCCCTTCCAGAGAAAGATGATCTGGGAGACAAACCCCAAGCTA 111
DB 299 ACTTCCTTAGGGGAAGTCCCTTCCAGAGAAAGATGATCTGGGAGACAAACCCCAAGCTA 358
QY 112 GTCCAGAGAGACAGAGTGAACATTAAGATTTTCAACAAGTCTCTCGTCCCTTCAAG 171
DB 359 GTCCAGAGAGACAGAGTGAACATTAAGATTTTCAACAAGTCTCTCGTCCCTTCAAG 418
QY 172 GAGAAATGAGAGAACATTCAGTGTGGGAGAACTTCATGACATAGAAGTGTTCATGATC 231
DB 419 GAGAAATGAGAGAACATTCAGTGTGGGAGAACTTCATGACATAGAAGTGTTCATGATC 478
QY 232 CTGAACCCCAAGAGACAGTGGCAATTTGAGTCTGTCCCTTCAAGCTGGGACCTTCAAG 291
DB 479 CTGAACCCCAAGAGACAGTGGCAATTTGAGTCTGTCCCTTCAAGCTGGGACCTTCAAG 538
QY 292 GTCCAGAGAACCTCTGGTGTGTGCGTCACTCCAGAGCTCCGAGCTCCGAGCTCCGAG 351
DB 539 GTCCAGAGAACCTCTGGTGTGTGCGTCACTCCAGAGCTCCGAGCTCCGAGCTCCGAG 598
QY 352 CTTTCTTCACTTCATCGGAGCCTGGCGGTGGAGACCTTCCTGGGAGTGTCAATTTT 411
DB 599 CTTTCTTCACTTCATCGGAGCCTGGCGGTGGAGACCTTCCTGGGAGTGTCAATTTT 658
QY 412 GTCTAAGACCTTCATCGAGTGTTCACCGCAAGATAGACCGCAAGTGTTCG 471
DB 659 GTCTAAGACCTTCATCGAGTGTTCACCGCAAGATAGACCGCAAGTGTTCG 718
QY 472 TTCAAACCTGGGTGAGCTCTTCACTGCTCGTGGGAGCCTGTTCCTCA 531
DB 719 TTCAAACCTGGGTGAGCTCTTCACTGCTCGTGGGAGCCTGTTCCTCA 778
QY 532 GCCATGACAGGTACATATTCATTCACAGGCCCTGGCCTATAGAGATTGTCAACAG 591

DB 779 GCCATGACAGGTACATATTCATTCACAGGCCCTGGCCTATAGAGATTGTCAACAG 838
QY 592 CCCAAGGCGGTGATAGCTTTTGGCTGATGTGACATAGCATTTGTATGCGGTGTG 651
DB 839 CCCAAGGCGGTGATAGCTTTTGGCTGATGTGACATAGCATTTGTATGCGGTGTG 898
QY 652 COTCTCTGGGCTGGAACCTGGAGAACTGCAATCTGTTTCTGAGACATTTTCCACAC 711
DB 899 COTCTCTGGGCTGGAACCTGGAGAACTGCAATCTGTTTCTGAGACATTTTCCACAC 958
QY 712 ATTGATGAACCTACCTGATGTTCGATTCGGGGTCAACAGCGTACTGCTTCTGTATC 771
DB 959 ATTGATGAACCTACCTGATGTTCGATTCGGGGTCAACAGCGTACTGCTTCTGTATC 1018
QY 772 GTGATGCGTACATGATATTTCTCGAAGGCTCAACGCCACGCCGTCCGATGATTAG 831
DB 1019 GTGATGCGTACATGATATTTCTCGAAGGCTCAACGCCACGCCGTCCGATGATTAG 1078
QY 832 CGTGGCAACCGAAGAGCATCATCCACAGCTGAGAGATGGGAAGTACAGGTGAC 891
DB 1079 CGTGGCAACCGAAGAGCATCATCCACAGCTGAGAGATGGGAAGTACAGGTGAC 1138
QY 892 CGGCCAGACCAAGCCCGCATGAGACATTAAGTTAGCCAAAGCCTGTCTTATCTGTG 951
DB 1139 CGGCCAGACCAAGCCCGCATGAGACATTAAGTTAGCCAAAGCCTGTCTTATCTGTG 1198
QY 952 GTGTGATCATCTGTGGGGCCCTCTGTTGCAATCATGTGTATGATGTTTGGGAAG 1011
DB 1199 GTGTGATCATCTGTGGGGCCCTCTGTTGCAATCATGTGTATGATGTTTGGGAAG 1258
QY 1012 ATGAACAAGCTCATTTAAGACGAGTGTTCATTTGCAAGTATGCTGTGCTGTAATCC 1071
DB 1259 ATGAACAAGCTCATTTAAGACGAGTGTTCATTTGCAAGTATGCTGTGCTGTAATCC 1318
QY 1072 ACCGTGAACCCCATCATCTATGCTCTGAGAGATAGACCTGCAACGCTTTCGAGAC 1131
DB 1319 ACCGTGAACCCCATCATCTATGCTCTGAGAGATAGACCTGCAACGCTTTCGAGAC 1378
QY 1132 ATGTTTCCCTTTTGAAGGACATGCGAGGCTCTGATTAACAGATGGGGAATCCGAC 1191
DB 1379 ATGTTTCCCTTTTGAAGGACATGCGAGGCTCTGATTAACAGATGGGGAATCCGAC 1438
QY 1192 TGCCAGCAAAACAGCAAAATATGACAGCAGTGTTCACAGGCGCGAAGAGCTGATC 1251
DB 1439 TGCCAGCAAAACAGCAAAATATGACAGCAGTGTTCACAGGCGCGAAGAGCTGATC 1498
QY 1252 AAGAGCAGGTCAAGATTGCAAGGTACCATGTCTGTCTCAGACACGTTGCGAG 1311
DB 1499 AAGAGCAGGTCAAGATTGCAAGGTACCATGTCTGTCTCAGACACGTTGCGAG 1558
QY 1312 GCTCTGTGA 1320
DB 1559 GCTCTGTGA 1567

Search completed: June 17, 2006, 01:40:53
Job time : 7783 secs

Db 301 AACCTGAGTGTGCTGAGTCACTCCGACGCTCCGCTGAGGCTTCTTAC 360
QY 361 CACTTCATCGAGAGCTGGCGGTGGCAGACCTCCCTGGGAGTGTATTTTGTCTACAGC 420
Db 361 CACTTCATCGAGAGCTGGCGGTGGCAGACCTCCCTGGGAGTGTATTTTGTCTACAGC 420
QY 421 TTCATTCATTCGAGTGTTCACCGCAAGATAGCCGCAAGTGTCTGTCTTCAACCTG 480
Db 421 TTCATTCATTCGAGTGTTCACCGCAAGATAGCCGCAAGTGTCTGTCTTCAACCTG 480
QY 481 GGTGGGTCACGCGCTCTTCACTGCGCTCCGTGGGAGCTGTCTTCTCAACGCTAC 540
Db 481 GGTGGGTCACGCGCTCTTCACTGCGCTCCGTGGGAGCTGTCTTCTCAACGCTAC 540
QY 541 AGGTATCATTCATTCACAGGCGCTTGGCTTAAAGATGTGTACCAAGGCGCCAAAGCC 600
Db 541 AGGTATCATTCATTCACAGGCGCTTGGCTTAAAGATGTGTACCAAGGCGCCAAAGCC 600
QY 601 GTGTAGCGTGTTCCTGATGTGACCAATAGCATTGTGACCGGTGCTGCTCTCTG 660
Db 601 GTGTAGCGTGTTCCTGATGTGACCAATAGCATTGTGACCGGTGCTGCTCTCTG 660
QY 661 GGTGGAACCTGGAAGAACTGCAATCTGTCTGCTGAGATTTTCCACATTTATGA 720
Db 661 GGTGGAACCTGGAAGAACTGCAATCTGTCTGCTGAGATTTTCCACATTTATGA 720
QY 721 ACCTACCTGATTTCTGAGTGTGGGCTGACAGGCTGCTGCTTCTGTCTGTATGTG 780
Db 721 ACCTACCTGATTTCTGAGTGTGGGCTGACAGGCTGCTGCTTCTGTCTGTATGTG 780
QY 781 TACATGTATTTCTGAGAGGCTCAAGCCAGCGCTCCGATGATTCAGGCTGAC 840
Db 781 TACATGTATTTCTGAGAGGCTCAAGCCAGCGCTCCGATGATTCAGGCTGAC 840
QY 841 CAGAAAGCATCATTCACAGCTGTGAGATGGAAGTACAGGTGACCCGCGCAAG 900
Db 841 CAGAAAGCATCATTCACAGCTGTGAGATGGAAGTACAGGTGACCCGCGCAAG 900
QY 901 CAAAGCCGATGAGATTTAGTTAGCAGACCTGTGTCTGTATCTGTGTGTGTATG 960
Db 901 CAAAGCCGATGAGATTTAGTTAGCAGACCTGTGTCTGTATCTGTGTGTGTATG 960
QY 961 ATCTGCTGGGCGCTCTGCTGCAATCATGTGTATGATCTTTGGGAAATGAACAAG 1020
Db 961 ATCTGCTGGGCGCTCTGCTGCAATCATGTGTATGATCTTTGGGAAATGAACAAG 1020
QY 1021 CTCATTTAAGACGGTGTTCATTCGAGTATGCTCTGCTGCTGAACTCCACGCTGAC 1080
Db 1021 CTCATTTAAGACGGTGTTCATTCGAGTATGCTCTGCTGCTGAACTCCACGCTGAC 1080
QY 1081 CCCATCATTTATGCTCTGAGAGTAAAGACCTGCGACAGCTTTCCGAGCATGTTTCC 1140
Db 1081 CCCATCATTTATGCTCTGAGAGTAAAGACCTGCGACAGCTTTCCGAGCATGTTTCC 1140
QY 1141 TCTTGTGAAGGACCTGCGACGCTCTGATTAACAGATGAGGAGCTCCGACCTGAC 1200
Db 1141 TCTTGTGAAGGACCTGCGACGCTCTGATTAACAGATGAGGAGCTCCGACCTGAC 1200
QY 1201 AAAACGCAACATGACAGCTGTTCACAGGCGCGCAAGAGCTGATCAAGAGCAG 1260
Db 1201 AAAACGCAACATGACAGCTGTTCACAGGCGCGCAAGAGCTGATCAAGAGCAG 1260
QY 1261 GTCAAGATTTGCAAGGTAACTATGTGTGTTCACAGACAGCTGTGCGAGGCTCTGTGA 1320
Db 1261 GTCAAGATTTGCAAGGTAACTATGTGTGTTCACAGACAGCTGTGCGAGGCTCTGTGA 1320

RESULT 2
US-11-242-505A-2
; Sequence 2, Application US/11242505A
; Publication No. US2006009656A1
; GENERAL INFORMATION:
; APPLICANT: Carroll, Joseph M.

APPLICANT: Healy, Aileen
TITLE OF INVENTION: Methods and Compositions for Treating
TITLE OF INVENTION: Hematological Disorders Using 232, 2059, 10630, 12848, 13875,
TITLE OF INVENTION: 14355, 14618, 17692, 58874, 252, 304, 1980, 14717, 9941, 19310,
FILE REFERENCE: MPI2001-288PRC10NMIM
CURRENT FILING DATE: 2005-10-03
PRIOR APPLICATION NUMBER: US/11/242, 505A
PRIOR FILING DATE: 2002-11-07
PRIOR APPLICATION NUMBER: US 60/347, 949
PRIOR FILING DATE: 2001-11-07
PRIOR APPLICATION NUMBER: US 10/320, 351
PRIOR FILING DATE: 2002-12-16
PRIOR APPLICATION NUMBER: 60/341, 606
NUMBER OF SEQ ID NOS: 48
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 1083
TYPE: DNA
ORGANISM: Homo Sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1) ... (1083)
US-11-242-505A-2

Query Match 18.6%, Score 245.2; DB 7; Length 1083;
Best Local Similarity 55.9%; Pred. No. 2.4e-58;
Matches 537; Conservative 0; Mismatches 378; Indels 45; Gaps 2;

QY 167 TCAAGAGATGAGAGAGAACTCCAGTGTGGGAGAACTTCATGAGCATAGATGTTTCA 226
Db 17 TGACAGAGATGAGAGAGAACTCCAGTGTGGGAGAACTTCATGAGCATAGATGTTTCA 76
QY 227 TGTCTTGAACCCAGCAGAGCTGCAATTCAGTGTCTGTCTTCACTGCTGCACT 286
Db 77 TGATCTGAGTGTGCTCCAGAGAGAGCTGTGCTGTGTGTGACCTTCTGCGGCTGC 136
QY 287 TCACGCTGTGAGAACTCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 346
Db 137 TAAAGTCTGAGAGAACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 196
QY 347 GCAAGCTTCTTCACTTCACTGAGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTG 406
Db 197 GGAAGCTTCACTTCACTGAGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTG 256
QY 407 TTTTGTCTACAGCTTCACTTCACTGAGCTGCGGCTGCGGCTGCGGCTGCGGCTG 466
Db 257 TCTTGTCAATGAGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 316
QY 467 TTTGTCTTCACTGAGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTG 526
Db 317 TCTGTGTGAAGATTTGAGAGCTGAGCTTCACTGAGCTTCACTGAGCTTCACTGAG 376
QY 527 TCACAGCATGAGAGAGTATTCATTCACAGGCGCTGCGGCTGCGGCTGCGGCTGCGG 586
Db 377 TGAAGCATGAGAGAGTATTCATTCACAGGCGCTGCGGCTGCGGCTGCGGCTGCGG 436
QY 587 CCAAGCCCAAGGCGGTGTGAGCTTGTGCTGATGTGTGAGCAATGATGTGTGTGTGT 646
Db 437 CCGGTGAAAGGCACTGTGTGAGCTTGTGCTGATGTGTGAGCAATGATGTGTGTGT 496
QY 647 TGTGTCTTCTTGT 706
Db 497 ACCTGCGCTTATGAGAGAGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 550
QY 707 CACACATGATGAACTTACCTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 766
Db 551 CACTGATCCCAATGATCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 610
QY 767 TCATGT 826
Db 611 GAATCATTTACACCTATGAGGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 668

OY 296 TGGAGAACTCTCGGNGCTGTGCTCATCTCCACATCCGAGCCCTCGCTGAGAGCCCTT 355
DB 397 TGGCGGGAACGTCTGTGTGTGCGCGCGGTGGGACGCGCAACTCTGCAAGAGCCCA 456
OY 356 CCTACCACTTTCAGCGAGCCCTGGCGGTGGGAGACCTCTCGGAGAGTTCATTTTGTCT 415
DB 457 CCAACTACTCTCTGGGTGTCCTGGGTGGCGGCGGAGGTGGCGGTGGGGGCTCTTCCGATCC 516
OY 416 ACAGCTTCACTTCACTTCCAGCTGTTCACCCGAAAGATAGCCGCAACGTCTTCTGTTC 475
DB 517 CTTTGCCATCAACCAATGAGCCGTGGCTTTCGACCTGA---CTTTCACGCTCTCTCTCC 573
OY 476 AACTGGTGGGGTCAAGGCTCTTCACTGCGTGGGAGCCCTTCTCCACAGCA 535
DB 574 TCGCCTGCTGTGCTGTGTGTGCTCAGCAGAGCTTCACTTTCAGCTTCTGGCGGTGGAG 633
OY 536 TCGACAGGTATCATTCATTCACAGGCGCCCTGAGCTATAGAGATTTGACACAGGCCCA 595
DB 634 TCGACAGATACCTGGCGCATCTGTGTCCGCTCAGGATATAAGTTTGTGTCAGGGGACCC 693
OY 596 AGGCGGTGTAGCTTTTGTGCTGATGTGACATAGCCATTTGATCGCGTGTGCTTC 655
DB 694 GAGCAAGAGGGGTCACTGTGTCTCTGTGGTCTTGTGCTTGGCATCGGATTCACCTCAT 753
OY 656 TCCCTGGGCTGGAACCTG 671
DB 754 TCTGGGGGTGAACAG 769

RESULT 5

US-11-257-851A-74

; Sequence 74, Application US/11257851A
; Publication No. US20060105951A1
; GENERAL INFORMATION:
; APPLICANT: Cunningham, Mark
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257, 851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent version 3.2
; SEQ ID NO 74
; LENGTH: 1080
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-257-851A-74

Query Match 4.3%; Score 56.8; DB 7; Length 1080;
Best Local Similarity 50.0%; Pred. No. 3e-06; Indels 24; Gaps 2;
Matches 216; Conservative 0; Mismatches 192;

OY 266 TGTCCCTCAGCGCTGGGACCTTCACGCTCTGAGAACTCTGTGCTGTGCTGATCC 325
DB 242 TTTTCTCTCTCTGGGACATCTGATCTGTGAAACATCTGTGTATCTCGGCGGTGG 301
OY 326 TCCACTCCCGAGCTCTCGCTGAGAGCTCTTACCACTTCATGCGAGAGCTGGCGGTGG 385
DB 302 TCAGAGAGGCGCAACTGCACTCC---CCGATGTACTTCTTCTGAGAGCTGGCGGTGG 358
OY 386 CAGACCTCTGGGGAGTG---TCAATTTTGTCTACACTTCA 424
DB 359 CCGAATGTGTGTATGTGTGTCATATGCCCTGAGAGCAATCATGATGCGCATGTCCACA 418
OY 425 TTGACTTCACAGCTGTTCACCGCAAGATAGCGGCAACGTGTCTGTTCATAACTGGGTG 484

DB 419 GCGACTACCTGACCTTCGAGAGCACGTTTATTCAGACATGAGCAATCTTCACCTCA 478
OY 485 GGGTACAGGCTCTCTTACCTCTCCGTTGGGAGAGCTGTCTTCTACAGCCATTCAGAGT 544
DB 479 TGAATGCATCTCTCTGGGTGCTCTCATCTGCAACTCTGACCATTCGCGGTGACAGGT 538
OY 545 ACATATCATTCACAGGCGCCCTGAGCTTATAGAGATTTGTACACAGGCCAAGGCGGTGG 604
DB 539 AGCTACCATCTTTTACGCGCTCCGCTACACAGATATATATCCTGAGAGAGGCTCTCA 598
OY 605 TAGCGTTTGTCTGATGTGACCATAGCCATTTGATGATCGCGTGTCTCTCTGAGCT 664
DB 599 CTTTATGTGAGCATCTGGGTCTGTGCTGCGCGCTGTGGGAGGTGTTTCATCTACT 658
OY 665 GGAATGGGAGA 676
DB 659 CGAGAGCAAAA 670

RESULT 6

US-10-488-619-1656

; Sequence 1656, Application US/10488619
; Publication No. US20060099578A1
; GENERAL INFORMATION:
; APPLICANT: Greenlee, Wimer and Sullivan, P.C.
; TITLE OF INVENTION: Human Mitochondrial DNA Polymorphisms, Haplogroups, Associations
; FILE REFERENCE: 98-01 WO
; CURRENT APPLICATION NUMBER: US/10/488, 619
; PRIOR FILING DATE: 2004-03-01
; NUMBER OF SEQ ID NOS: 3040
; SOFTWARE: Patent version 3.1
; SEQ ID NO 1656
; LENGTH: 599
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-488-619-1656

Query Match 4.1%; Score 53.6; DB 6; Length 599;
Best Local Similarity 51.7%; Pred. No. 1.7e-05;
Matches 122; Conservative 0; Mismatches 114; Indels 0; Gaps 0;

OY 601 GTGGAGGCTTTTGGCTGATGTGACCATATGATGATGCGGTGCTGCTCTG 660
DB 30 GTGGTGTGATGTGTATGTATCTGATGATGATGATGATGATGATGATGATGATGATG 89
OY 661 GCGTGAACCTCGAGAACTGCATCTGTGCTGACATTTTCCACATTTGATGAA 720
DB 90 GCGTGAACCTCATCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 149
OY 721 AACTTACCTGATGTGTGATGTGGGTGACAGAGCTTCTGTGTATGTGTATGCG 780
DB 150 TCTACTTATGTCTTGTGGGCAATTTTCACTGTGATGATGATGATGATGATGATGATG 209
OY 781 TACATGTATTTCTCTGAGAGCTTCACAGCCAGCGCTGCGATGATTCAGCTGG 836
DB 210 TACGTCATATCTTGTGCTATGTGTGCGAGAGCATATGATGATGATGATGATGATG 265

RESULT 7

US-11-302-678-39

; Sequence 39, Application US/11302678
; Publication No. US20060088881A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Silos-Santiago, Immaculada
; APPLICANT: Venkateswarlu, Karichei
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: UROLOGICAL DISORDERS USING 1435, 559, 34021, 44099, 25278,
; FILE REFERENCE: 12303, 985, 13237, 13601, 18926, 318, 2058 OR 6351 MOLECULES.
; CURRENT APPLICATION NUMBER: US/11/302,678


```
/ CURRENT FILING DATE: 2005-12-14
/ PRIOR APPLICATION NUMBER: US/10/345,680
/ PRIOR FILING DATE: 2003-01-16
/ PRIOR APPLICATION NUMBER: US 60/349,511
/ PRIOR FILING DATE: 2002-01-18
/ PRIOR APPLICATION NUMBER: US 60/360,500
/ PRIOR FILING DATE: 2002-02-28
/ PRIOR APPLICATION NUMBER: US 60/365,041
/ PRIOR FILING DATE: 2002-03-15
/ PRIOR APPLICATION NUMBER: US 60/374,063
/ PRIOR FILING DATE: 2002-04-19
/ PRIOR APPLICATION NUMBER: US 60/403,468
/ PRIOR FILING DATE: 2002-08-14
/ PRIOR APPLICATION NUMBER: US 60/414,262
/ PRIOR FILING DATE: 2002-09-27
/ PRIOR APPLICATION NUMBER: US 60/419,986
/ PRIOR FILING DATE: 2002-10-21
/ PRIOR APPLICATION NUMBER: US 60/423,809
/ PRIOR FILING DATE: 2002-11-05
/ PRIOR APPLICATION NUMBER: US 60/429,797
/ PRIOR FILING DATE: 2002-11-26
/ NUMBER OF SEQ ID NOS: 66
/ SOFTWARE: FaastSeq for Windows Version 4.0
/ SEQ ID NO 39
/ LENGTH: 1074
/ TYPE: DNA
/ ORGANISM: Homo Sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1)...(1074)
US-11-302-678-39
```

Query Match 4.0%; Score 53; DB 7; Length 1074;

Best Local Similarity 44.8%; Pred. No. 3.4e-05; Matches 246; Conservative 0; Mismatches 300; Indels 3; Gaps 1;

```
277 CTGGGACACTTACCGGTCTGTGAAACCTCGGTGCTGTGGTCACTCTCCACTCCGCG 336
148 CTGGGCGCGGCGACCTTCCCTGGAACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 207
337 AGCCTCGGTGAGGCTTCTTCAACACTTCACTGAGGCTGCGGCTGCAAGCTCTGTG 396
208 ACCTTCACCGGCTGTGCGCAACACCTGTGATCATGAGCGGTCTGGATGTCTGTGTG 267
397 ---GGAGTGTCAATTTTGTCTACAGCTTCACTTCAAGTGTTCACCGCAAAAGT 453
268 GCCGCGCTGTGTATGCTGCGCTGAGCTGTGTGATGAGCTGTCCGGCGCGCTGGCAGT 327
454 AGCCGCAACGTGTCTGTCTTCAAACTGGGTGGGTGACGCGCTCTTCACTGCTCCGTG 513
328 GGTGAGGCTGTGCGACCTTTGGAATCGGTGTGAGCTGTGTGTGTGTGTGTGTGTGTG 387
514 GGCAGCTGTCTTCTCAACAGCCATTCAGAGTACATATTCATTACAGGCGCTGTGCTAT 573
368 TGGAACTGTAGCGGCAATAGCCCTGAGCCGCTACTGTGTCAACGCGGCAATGGAATAC 447
574 AAGAGATTTGTCAACAGGCGCAAGCGCTGTGTGAGCTTTTGTCTGTGTGTGTGTGTG 633
448 AGCTTCGAGCCGCAAGTGTGTCTCAACGTTCATGATGCGCTCACTCGGCACTCTTC 507
634 ATTGTATGCGCGTGTGCTGTCTCTGCGGCTGTGAACTGGAGAACTGCAATCTGTGTTC 693
508 GCTGTCAATCTCTGTGCGCGCTGTCTCTTTTGTGCTGGGAGAGACGTACTGTAGGCGAC 567
694 TCAGACATTTTCCACACATTTGATGAACTTACCTGTATGTGTGTGTGTGTGTGTGTGT 753
568 GAGGAGTGTCAAGTAAAGCGGAGCTTCTTAAGCGGTGTCTTCCACGCTAGGCGCTTTC 627
754 GTACTGCTTTCTTATCTGTATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 813
628 TACTGCGGCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 687
814 GCCGTGCGC 822
```

Db 688 CCGGTGCGC 696

```
RESULT 8
US-11-302-678-37
/ Sequence 37, Application US/1102678
/ Publication No. US20060088881A1
/ GENERAL INFORMATION:
/ APPLICANT: Millennium Pharmaceuticals, Inc.
/ APPLICANT: Silos-Santiago, Immaculada
/ APPLICANT: Venkateswarlu, Karicheti
/ TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
/ TITLE OF INVENTION: UNOLOGICAL DISORDERS USING 1435, 559, 34021, 44099, 25278,
/ TITLE OF INVENTION: 641, 260, 55089, 21407, 42032, 4656, 62553, 302, 323,
/ FILE REFERENCE: MP102-012PRM OKMI
/ CURRENT APPLICATION NUMBER: US/11/302,678
/ PRIOR APPLICATION NUMBER: US/10/345,680
/ PRIOR FILING DATE: 2003-01-16
/ PRIOR APPLICATION NUMBER: US 60/349,511
/ PRIOR FILING DATE: 2002-01-18
/ PRIOR APPLICATION NUMBER: US 60/360,500
/ PRIOR FILING DATE: 2002-02-28
/ PRIOR APPLICATION NUMBER: US 60/365,041
/ PRIOR FILING DATE: 2002-03-15
/ PRIOR APPLICATION NUMBER: US 60/374,063
/ PRIOR FILING DATE: 2002-04-19
/ PRIOR APPLICATION NUMBER: US 60/403,468
/ PRIOR FILING DATE: 2002-08-14
/ PRIOR APPLICATION NUMBER: US 60/414,262
/ PRIOR FILING DATE: 2002-09-27
/ PRIOR APPLICATION NUMBER: US 60/419,986
/ PRIOR FILING DATE: 2002-10-21
/ PRIOR APPLICATION NUMBER: US 60/423,809
/ PRIOR FILING DATE: 2002-11-05
/ PRIOR APPLICATION NUMBER: US 60/429,797
/ PRIOR FILING DATE: 2002-11-26
/ NUMBER OF SEQ ID NOS: 66
/ SOFTWARE: FaastSeq for Windows Version 4.0
/ SEQ ID NO 37
/ LENGTH: 1159
/ TYPE: DNA
/ ORGANISM: Homo Sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (64)...(1137)
US-11-302-678-37
```

Query Match 4.0%; Score 53; DB 7; Length 1159;

Best Local Similarity 44.8%; Pred. No. 3.5e-05; Matches 246; Conservative 0; Mismatches 300; Indels 3; Gaps 1;

```
277 CTGGGACACTTACCGGTCTGTGAAACCTCGGTGCTGTGGTCACTCTCCACTCCGCG 336
211 CTGGGCGCGGCGACCTTGTGCGCTGTGAACTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 270
337 AGCCTCGGTGAGGCTTCTTCAACACTTCACTGAGGCTGCGGCTGCAAGCTCTGTG 396
271 ACCTTCACCGGCTGTGCGCAACACCTGTGTGATCATGAGCGGTCTGGATGTCTGTGTG 330
397 ---GGAGTGTCAATTTTGTGTCTACAGCTTCACTTCAAGTGTTCACCGCAAAAGT 453
331 GCCGCGGTGTATGCTGCGCTGAGCTGTGTGATGAGCTGTGCGGCGCGCTGGAGCTTA 390
454 AGCCGCAACGTGTCTGTCTTCAAACTGGGTGGGTGACGCGCTCTTCACTGCGCTCCGTG 513
391 GGTGAGGCTGTGTGCACTTTTGTGAACTGTGTGAGTGTGTGTGTGTGTGTGTGTGTGTGT 450
514 GGCAGCTGTCTTCTCAACAGCCATTCAGAGTACATATTCATTACAGGCGCTGTGCTAT 573
451 TGGAACTGTAGCGGCAATAGCCCTGTGACCGCTTACTGTGTCAACGCGGCAATGGAATAC 510
```

```
QY 574 AAGAGATTGTACAGGCGCCAGGCGGTGAGGCTTTGCTGATGTGACATAGCC 633
; APPLICANT: Bio-oriented Technology Research Advancement Institution.
; APPLICANT: The Institute of Physical and Chemical Research.
; APPLICANT: Foundation for Advancement of International Science.
; FILE REFERENCE: MOA-A02051-US
; CURRENT APPLICATION NUMBER: US/10/449,902
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2002-203269
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: JP 2002-383870
; PRIOR FILING DATE: 2002-12-11
; NUMBER OF SEQ ID NOS: 56791
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO: 19945
; LENGTH: 1579
; TYPE: DNA
; ORGANISM: Oryza sativa
; PUBLICATION INFORMATION:
; PUBLICATION ACCESSION NUMBER: AK070284
; DATABASE ENTRY DATE: 2001-12-06
; US-10-449-902-19945

Db 691 TACGCGCGCTGTGTGTGTCTTCTGTTACTGAGATCTACAGGCTGCAAGTTTC 750
QY 814 GCCGTCCGC 822
; APPLICANT: Cunningham, Mark
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257,851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In version 3.2
; SEQ ID NO: 78
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-257-851A-78

Query Match 3.8%; Score 49.6; DB 7; Length 975;
Best Local Similarity 58.2%; Pred. No. 0.00028;
Matches 107; Conservative 0; Mismatches 74; Indels 3; Gaps 1;

QY 266 TGTCCCTCAGCTGAGGACCTTACAGGTCCTGAGAACTCTGTGTCGTGTCATCC 325
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257,851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In version 3.2
; SEQ ID NO: 78
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-257-851A-78

Db 125 TGTTCCTCAGCTGAGGTCATCAGGCTCTTGAAGAACTTGGTCATAGAGGCGCATAG 184
QY 326 TCCACTCCCGAGCTTCCGCTGAGGCTTCTTACCACTTCAATCGGACCTGGGGTGG 385
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257,851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In version 3.2
; SEQ ID NO: 78
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-257-851A-78

Db 185 TGAAGAAACAAACCTGACCTCC--CCATGTACTTCTTGTGTGACCTGGAGCTGGAGTGG 241
QY 386 CAGACCTCTGGGAGTGTCTTTTGTCTTACAGCTTCACTTCCAGTGTTCAC 445
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257,851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In version 3.2
; SEQ ID NO: 78
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-257-851A-78

Db 242 CGGACATGTGTGTGAGCATGTCCAGTGTCTGGAGAACATCACTTACTTACTACACA 301
QY 446 GCAA 449
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257,851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In version 3.2
; SEQ ID NO: 78
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-257-851A-78

Db 302 ACAA 305
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257,851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In version 3.2
; SEQ ID NO: 78
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-257-851A-78

RESULT 10
US-10-449-902-19945
; Sequence 19945, Application US/10449902
; Publication No. US20060123505A1
; GENERAL INFORMATION:
```

```
; APPLICANT: National Institute of Agrobiological Sciences.
; APPLICANT: Bio-oriented Technology Research Advancement Institution.
; APPLICANT: The Institute of Physical and Chemical Research.
; APPLICANT: Foundation for Advancement of International Science.
; FILE REFERENCE: MOA-A02051-US
; CURRENT APPLICATION NUMBER: US/10/449,902
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2002-203269
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: JP 2002-383870
; PRIOR FILING DATE: 2002-12-11
; NUMBER OF SEQ ID NOS: 56791
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO: 19945
; LENGTH: 1579
; TYPE: DNA
; ORGANISM: Oryza sativa
; PUBLICATION INFORMATION:
; PUBLICATION ACCESSION NUMBER: AK070284
; DATABASE ENTRY DATE: 2001-12-06
; US-10-449-902-19945

Query Match 3.8%; Score 49.6; DB 6; Length 1579;
Best Local Similarity 47.4%; Pred. No. 0.00036;
Matches 182; Conservative 0; Mismatches 199; Indels 3; Gaps 1;

QY 82 AAGATGACTGGGAGAGCAACCCCAAGTATGCCAGACACAGGTGAACATTACAGAA 141
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257,851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In version 3.2
; SEQ ID NO: 78
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-257-851A-78

Db 682 AATGTACCATCAGGCGCATCACATTCTACACCTCTCACTGCCCAACACCGATGA 741
QY 142 TTTTACAAAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 201
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257,851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In version 3.2
; SEQ ID NO: 78
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-257-851A-78

Db 742 ATCGACCAAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 801
QY 202 AACTTCATGACATAGATGTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 258
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257,851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In version 3.2
; SEQ ID NO: 78
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-257-851A-78

Db 802 GACTGATCGGCGGTGAAGAGGCGGTGGAGACCATGACATCAAGTTCAAGTCGAGC 861
QY 259 GCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 318
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257,851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In version 3.2
; SEQ ID NO: 78
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-257-851A-78

Db 862 CAGCATCTCTCATFAGAGGCTCACCTGATCTCCAGAGAGGCGCATATGCGCTC 921
QY 319 GTATCTCTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 378
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257,851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In version 3.2
; SEQ ID NO: 78
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-257-851A-78

Db 922 GCGAGGAGATGTCGCGGCGATCCGCGACGTGCGCGCGTGAGAACGTGCGCATCGAC 981
QY 379 GCGGTGGAGACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 438
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257,851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In version 3.2
; SEQ ID NO: 78
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-257-851A-78

Db 982 ACCGATGCGCGGTGAGATCAAGTCCGCGGTGGGCGCGGTACTGTAAGACGTG 1041
QY 439 TTCACGCGCAAAAGATAGCCGAC 462
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257,851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In version 3.2
; SEQ ID NO: 78
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-257-851A-78

Db 1042 TTCGTCGCGGCTCAGCTCCAC 1065
; APPLICANT: Stojanovic-Susulic, Vedrana
; APPLICANT: O'Neil, Karyn
; APPLICANT: Huang, Chichi
; APPLICANT: Luo, Jeffrey
; TITLE OF INVENTION: Melanocortin Receptor Binding Mimetics, Compositions, Methods
; TITLE OF INVENTION: Uses
; FILE REFERENCE: CEN5080 USA NP
; CURRENT APPLICATION NUMBER: US/11/257,851A
; PRIOR FILING DATE: 2005-10-25
; PRIOR APPLICATION NUMBER: 60/621,960
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: Patent In version 3.2
; SEQ ID NO: 78
; LENGTH: 975
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-257-851A-78

RESULT 11
US-11-312-958-39
; Sequence 39, Application US/11312958
; Publication No. US20060100152A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Rosenfeld, Julie Beth
; APPLICANT: Silos-Santiago, Imaculada
; TITLE OF INVENTION: PAIN AND PAINFUL DISORDERS USING 9949, 14230, 760, 62553,
; TITLE OF INVENTION: METHODS AND COMPOSITIONS IN TREATING
; TITLE OF INVENTION: 12216, 17719, 41897, 47174, 33408, 10002, 16209, 314, 636,
; TITLE OF INVENTION: 27410, 33260, 619, 15985, 65112, 2158, 224, 615, 44373,
; TITLE OF INVENTION: 95431, 22245, 2387, 1658, 55054, 16314, 1613, 1675, 9569 OR
; FILE REFERENCE: MP102-027P1RMONIM
; CURRENT APPLICATION NUMBER: US/11/312,958
; CURRENT FILING DATE: 2005-12-20
```

```

; PRIOR APPLICATION NUMBER: US/10/369,022
; PRIOR FILING DATE: 2003-02-19
; PRIOR APPLICATION NUMBER: US 60/360,495
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/370,121
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/373,010
; PRIOR FILING DATE: 2002-04-16
; PRIOR APPLICATION NUMBER: US 60/373,908
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/377,717
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: US 60/379,949
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/382,409
; PRIOR FILING DATE: 2002-05-21
; PRIOR APPLICATION NUMBER: US 60/385,280
; PRIOR FILING DATE: 2002-06-03
; PRIOR APPLICATION NUMBER: US 60/386,879
; PRIOR FILING DATE: 2002-06-06
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 1650
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (616)...(1593)
US-11-312-958-39
```

```

Query Match          3.8%; Score 49.6; DB 7; Length 1650;
Best Local Similarity 58.2%; Pred. No. 0.00037;
Matches 107; Conservative 0; Mismatches 74; Indels 3; Gaps 1;
```

```

QY 266 TGTCTCTACGCTGGGACCTTACAGCTCTCTGAGAGAACCTCCGTGGCTGTGCTATCC 325
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 740 TGTCTCTACGCTGGGTGTGATCAGCTCTTGAAGAACATCTTGTCATAGGGCCATAG 799
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 336 TCCACTCCCGGACGCTCCGCTGACAGGCTTCTTACCACTTTCAGGAGCTGGCGGTGG 385
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 800 TGAAGAGCAAAACCTGCACATCC---CCATGTACTTCTTCGTGCAAGCTGGCAGTGG 856
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 386 CAGACCTCTCTGGGAGGTGTCAATTTTGTCTTACAGCTTCAATTCACGTTCCACC 445
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 857 CGGACATGCTGTGAGCATGTCCAGTGCCTGGGAGCATCACATCTACTCAACA 916
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 446 GCAA 449
    ||| |||
DB 917 ACAA 920
```

```

RESULT 12
US-10-505-928-663/C
; Sequence 663, Application US/10505928
; Publication No. US20060088532A1
; GENERAL INFORMATION:
; APPLICANT: Ludwig Institute for Cancer Research et al.
; TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
; FILE REFERENCE: 28967/39178
; CURRENT APPLICATION NUMBER: US/10/505,928
; PRIOR FILING DATE: 2004-08-27
; PRIOR APPLICATION NUMBER: US 60/363,019
; PRIOR FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 866
; SOFTWARE: PatentIn 3.2
; SEQ ID NO 663
; LENGTH: 5132
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-505-928-663
```

```

Query Match          3.7%; Score 49.4; DB 6; Length 5132;
Best Local Similarity 51.1%; Pred. No. 0.00074;
Matches 116; Conservative 0; Mismatches 111; Indels 0; Gaps 0;

QY 259 GCAGTCTGTCCCTCAAGCTGGGACCTTCAAGCTCTGAGAGAACCTCTGTGTGTC 318
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2126 GAAGTCTGTGTGCGGCGCCAGGCGCCATTCAGAGCAGGCGCTCTCTCGGCGCTTC 2067
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 319 GTTCATCTTCACTCCGAGGCTCCGCTGAGGCTTCTTACCACTTCAATGGAGCGTG 378
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2066 ATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCA 2007
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 379 GGGGTGGGACAGCTCTGGGAGGTGTCATTTTGTCTTACAGTTCACTTTCACAGTG 438
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 2006 TGGGGGCCCCCATTTTCAAAATACGGGTTCACAGCAGTCTCTCTTCTCTCTCTCTC 1947
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 439 TTCCACCGCAAAAGATAGCCGCAAGCTTCTGTCTTCAACTGGAGTG 485
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1946 ATCTCTCTCTGCGCCCTGTTCACCTGGCGCTCTCTCGCGGTGG 1900
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

```

RESULT 13
US-10-504-973-47
; Sequence 47, Application US/10504973
; Publication No. US20060121459A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.; CHAWLA, Narinder K.;
; APPLICANT: YUE, Henry; RICHARDSON, Thomas W.;
; APPLICANT: MARQUIS, Joseph P.; GORVAD, Ann E.;
; APPLICANT: BECHA, Shanya D.; KABLE, Amy E.;
; APPLICANT: SWARNAKAR, Anita; JIN, Pei;
; APPLICANT: HAWKINS, Phillip R.; CHIEN, David;
; APPLICANT: RAMKUMAR, Jayalaxmi; LEHR-MASON, Patricia M.;
; APPLICANT: TRAN, Uyen K.; HAPALIA, April J.A.;
; APPLICANT: BAUGHN, Mariah R.; LEE, Soo Yeun;
; APPLICANT: JIAN, Xin; JACKSON, Alan A.;
; APPLICANT: KHARE, Reena; BULLOCH, Sean A.
; TITLE OF INVENTION: RECEPTORS AND MEMBRANE-ASSOCIATED PROTEINS
; FILE REFERENCE: PF-1381 PCT
; CURRENT APPLICATION NUMBER: US/10/504,973
; PRIOR FILING DATE: 2004-08-18
; PRIOR APPLICATION NUMBER: US 60/358,279
; PRIOR FILING DATE: 2002-02-20
; PRIOR APPLICATION NUMBER: US 60/364,338
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: US 60/375,657
; PRIOR FILING DATE: 2002-04-25
; PRIOR APPLICATION NUMBER: US 60/376,669
; PRIOR FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: US 60/379,837
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: US 60/379,853
; PRIOR FILING DATE: 2002-05-10
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PERL Program
; SEQ ID NO 47
; LENGTH: 2193
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No: 7506852CB1
US-10-504-973-47
```

```

Query Match          3.7%; Score 48.2; DB 6; Length 2193;
Best Local Similarity 42.8%; Pred. No. 0.001;
Matches 242; Conservative 0; Mismatches 323; Indels 0; Gaps 0;
```

```

QY 571 TATAAGAGATTGTACCAAGGCGCGGTGATGCTTTTGTGCTGATGTGACATA 630
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 706 TACAAGATGTGTGTACCCCGGAGGGGCGGTGGCCATAGCCGGGTGCTGATCTTC 765
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 631 GCCATTGTGATGCCGCTGTCTCTCTGGGCTGAACACTGCAAAATGCAATCTGTT 690
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

```
Db 766 TCCTTCGTGGTGGAGCTGACCCCTATGTTGGCTGGAACAATCTGAGTGGGTGAGGGG 825
Qy 631 TGTCTAGACATTTTCCACACATTCATGAAACCTACCTGATTTTCGATCGGGGTACCC 750
Db 826 GCTTGGGAGCCCAAGGAGCAGATGGGGGAGCCCGATCAATGTGCAAGTTCCAGAAGGTC 885
Qy 751 AGCCGACTGCTTCTGTTATCGTGTATGATGATGATATATTTCTGGAAGGCTCACAGC 810
Db 886 ATCAGCATGAGATACATGATGATCTACTTCAACTTCTTGTGTGGGTGCTGCCCCGCTTCTC 945
Qy 811 CACGCCGTCCGATGATTCAGCGGTGACCCAGAAAGAGCATCATCCACAGCTGTAG 870
Db 946 CTCAATGCTCTCATCTCACTGGAAGGCTTCTACCTAATCCGAGAAGCTCAACAAGAAG 1005
Qy 871 GATGGGAAGATGACAGTGAACCCGCGCAGACCAAGCCCGATGACATTAGTTAGCCAG 930
Db 1006 GTGTGGGCTCTCTCCGCGGACCCGCAAGATCTATGGAAGAGACTGAAAGATCCCAAG 1065
Qy 931 ACCGTGCTGATCTGATCTGGTGTGATCATCTGCTGGGGCCCTCTGCTTCATTCATG 990
Db 1066 TGTGCGCCCTCATCTCTTCTCTTGTGCTCAAGCTGGCTGCTTGGACATCTCTCAAC 1125
Qy 991 GTGATGATGCTCTTGGGAAGATGAACAAGCTATTAAAGCCGTGTTGCAATTCGCACT 1050
Db 1126 TGCATCACCCCTTCTGCCCCGCTGCGCAAGCCCAAGATCTTAACTTACATTCGCAATC 1185
Qy 1051 ATGCTGCTGCTGCTGTAATCTCAACCGTGAAACCCCATCATTTATGCTGTAGAGATAGAC 1110
Db 1186 TTCTCTCAAGCAAGGCAACTCGGCGCATGAACCCCATTTCTATGCTTCGCGATCCAGAA 1245
Qy 1111 CTGGACAAGCTTTCGCGAGCATGT 1135
Db 1246 TTCGCGTACCTTCTTAAATTT 1270
```

RESULT 14

```
US-10-521-428a-6
; Sequence 6, Application US/10521428A
; Publication No. US20060115816A1
; GENERAL INFORMATION:
; APPLICANT: Vu, Huy Khang
; APPLICANT: Grolewski, Thierry
; APPLICANT: Grolewski, Peter
; TITLE OF INVENTION: Splice Variant Cannabinoid Receptor (CB1B)
; FILE REFERENCE: AS2D-P01-750
; CURRENT APPLICATION NUMBER: US/10/521,428A
; CURRENT FILING DATE: 2005-01-14
; PRIOR APPLICATION NUMBER: 0202240-8
; PRIOR FILING DATE: 2002-07-17
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: sequence of oligonucleotide used to delete polynucleotides
; OTHER INFORMATION: encoding human CB1b receptor N-terminus
US-10-521-428a-6
```

```
Query Match 3.6%; Score 48; DB 6; Length 48;
Best Local Similarity 100.0%; Pred. No. 0.00016;
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 40 CGACACATCAACCATGACCTCTCTGGAAAGTCCCTTCCAGAGAAGATG 87
Db 1 CGACACATCAACCATGACCTCTCTGGAAAGTCCCTTCCAGAGAAGATG 48
```

RESULT 15

```
US-10-449-902-19898
; Sequence 19898, Application US/10449902
```

```
; Publication No. US20060123505A1
; GENERAL INFORMATION:
; APPLICANT: National Institute of Agrobiological Sciences.
; APPLICANT: Bio-oriented Technology Research Advancement Institution.
; APPLICANT: The Institute of Physical and Chemical Research.
; APPLICANT: Foundation for Advancement of International Science.
; TITLE OF INVENTION: FULL-LENGTH PLANT CDNA AND USES THEREOF
; FILE REFERENCE: MOA-A0205Y1-US
; CURRENT APPLICATION NUMBER: US/10/449,902
; CURRENT FILING DATE: 2003-05-29
; PRIOR APPLICATION NUMBER: JP 2002-203269
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: JP 2002-383870
; PRIOR FILING DATE: 2002-12-11
; NUMBER OF SEQ ID NOS: 56791
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19898
; LENGTH: 1936
; TYPE: DNA
; ORGANISM: Oryza sativa
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: AK070238
; DATABASE ENTRY DATE: 2001-12-06
US-10-449-902-19898
```

```
Query Match 3.5%; Score 46.4; DB 6; Length 1936;
Best Local Similarity 49.2%; Pred. No. 0.003;
Matches 122; Conservative 0; Mismatches 126; Indels 0; Gaps 0;
```

```
Qy 297 GAGAACTCTGCTGTGCTGTGCTGATCTTCACCTCCGACAGCTCCGCTGACAGGCTTC 356
Db 525 GGTATCTCTCAACCGCATGAGGTATCTCTCTCCCATTAATCACTTTCGCAACCCGAT 584
Qy 357 CTACACTTCAATCGGACCTGCGGTGACAGACTCTCTGGGAGTGTATTTGTCTA 416
Db 585 CTTCCGCTTCTTCCACGAGACGACGAGATGCGCTCTGCGACGCCCTTCTCCCTCTA 644
Qy 417 CAGCTTATGATCTTCCACGATGTTCCACGGAAGATAGCCGCAACGATTTCTGTTCAA 476
Db 645 CATGATCCCCCAGGCTTCTGCTTACGCTTCAACTTCCCATTCAGAAATCTCTCAGGC 704
Qy 477 ACTGGTGGGATCAAGGCTCTCTTCACTGCTTCCGTTGGGACAGCTGTTCCTCACAGCCAT 536
Db 705 CCAAGCAAGATCATAGGCTCATGAGCGCGCTCTCCGCGGATGCTGTTCAGATGCG 764
Qy 537 CGACAGGT 544
Db 765 GCTCAGGT 772
```

```
Search completed: June 17, 2006, 00:21:26
Job time : 71 secs
```

GenCore version 5.1.9
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 16, 2006, 23:47:50 / Search time 1644 Seconds
(without alignments)
9865.985 Million cell updates/sec

Title: US-10-521-428a-1

Perfect score: 1320

Sequence: 1 atgaagtcgacccatcagatcg.....cgctcgcgagcgtcgtcga 1320

Scoring table:

Gapop 10.0, Gapext 1.0

Searched: 18892170 seqs, 6143817638 residues

Total number of hits satisfying chosen parameters: 37784340

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Published Applications NA Main:

1: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US08_PUBCOMB.seq:*
3: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US09_PUBCOMB.seq:*
4: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
5: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
6: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
7: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
8: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
9: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
10: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
11: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US10F_PUBCOMB.seq:*
12: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US10G_PUBCOMB.seq:*
13: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US11A_PUBCOMB.seq:*
14: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US11B_PUBCOMB.seq:*
15: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US11C_PUBCOMB.seq:*
16: /EMC_Celerra_SIDS3/ptodata/2/pubpna/US11D_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1259.4	95.4	5665	US-10-764-425-72	Sequence 72, Appl
2	1259.4	95.4	5665	US-10-482-029-171	Sequence 171, App
3	1259.4	95.4	5665	US-10-851-667A-24	Sequence 24, Appl
4	1257.8	95.3	1419	US-10-029-386-24875	Sequence 24875, A
5	1257.8	95.3	1755	US-10-225-567A-83	Sequence 83, Appl
6	1257.8	95.3	1755	US-10-295-027-235	Sequence 235, App
7	1257.8	95.3	1755	US-11-127-877-2	Sequence 2, Appl
8	1257.8	95.3	5480	US-11-019-829-27	Sequence 27, Appl
9	1257.8	95.3	5653	US-10-208-408-52	Sequence 52, Appl
10	1256.2	95.2	1419	US-10-521-420-2	Sequence 2, Appl
11	1256.2	95.2	1419	US-10-521-420-3	Sequence 3, Appl
12	1256.2	95.2	2135	US-10-101-510-715	Sequence 715, App
13	1256.2	95.2	2135	US-10-305-720-1450	Sequence 1450, App
14	1256.2	95.2	2135	US-10-641-643-1469	Sequence 1469, App
15	1256.2	95.2	5651	US-10-101-510-409	Sequence 409, App
16	1254.6	95.0	1419	US-09-826-509-468	Sequence 468, App
17	1254.6	95.0	1419	US-10-925-095-468	Sequence 468, App

18	1254.6	95.0	1419	US-10-521-420-4	Sequence 4, Appl
19	1251.4	94.8	5472	US-10-295-027-237	Sequence 237, App
20	1209.8	91.7	1551	US-09-823-245A-513	Sequence 513, App
21	1151	87.2	1252	US-10-295-027-229	Sequence 239, App
22	1151	87.2	1252	US-11-019-829-28	Sequence 28, Appl
23	1049.2	79.5	5489	US-11-136-527-2129	Sequence 2129, App
24	795.8	60.3	993	US-11-128-061-837	Sequence 837, App
25	795.8	60.3	993	US-11-128-049-837	Sequence 837, App
26	506.2	38.3	600	US-11-128-061-4479	Sequence 4479, App
27	506.2	38.3	600	US-11-128-049-4479	Sequence 4479, App
28	498.4	37.8	500	US-10-029-386-11154	Sequence 11154, A
29	412	31.2	600	US-11-060-756-2219	Sequence 2219, App
30	412	31.2	600	US-11-060-756-2220	Sequence 2220, App
31	412	31.2	600	US-11-060-756-6491	Sequence 6491, App
32	412	31.2	600	US-11-060-756-6492	Sequence 6492, App
33	252.4	19.1	3715	US-10-330-773-929	Sequence 929, App
34	252.4	19.1	44617	US-10-330-773-928	Sequence 928, App
35	246.8	18.7	1906	US-10-330-773-932	Sequence 932, App
36	246.8	18.7	21906	US-10-330-773-931	Sequence 931, App
37	246.4	18.7	1776	US-10-851-667A-25	Sequence 25, Appl
38	245.2	18.6	1083	US-10-290-078-2	Sequence 2, Appl
39	245.2	18.6	1776	US-10-225-567A-85	Sequence 85, Appl
40	245.2	18.6	1790	US-10-290-078-1	Sequence 1, Appl
41	245.2	18.6	1790	US-10-305-720-1359	Sequence 1359, App
42	245.2	18.6	1790	US-10-641-643-1398	Sequence 1398, App
43	242.8	18.4	2926	US-11-136-527-3556	Sequence 3556, App
44	240.4	18.2	1083	US-09-826-509-470	Sequence 470, App
45	240.4	18.2	1083	US-10-925-095-470	Sequence 470, App

ALIGNMENTS

RESULT 1				
US-10-764-425-72				
Sequence 72, Application US/10764425				
Publication No. US20040146921A1				
GENERAL INFORMATION:				
APPLICANT: Bayer Pharmaceuticals Corporation				
APPLICANT: Eveleigh, Deepa				
APPLICANT: Bigwood, Douglas				
APPLICANT: Taylor, Ian				
TITLE OF INVENTION: EXPRESSION PROFILES FOR COLON CANCER AND METHODS OF USE				
FILE REFERENCE: 5151				
CURRENT APPLICATION NUMBER: US/10/764,425				
CURRENT FILING DATE: 2004-01-23				
PRIOR APPLICATION NUMBER: 60/442,582				
PRIOR FILING DATE: 2003-01-24				
NUMBER OF SEQ ID NOS: 191				
SOFTWARE: PatentIn version 3.2				
SEQ ID NO 72				
LENGTH: 5665				
TYPE: DNA				
ORGANISM: Homo sapiens				
US-10-764-425-72				
Query Match				
Best Local Similarity 95.4%; Score 1259.4; DB 8; Length 5665;				
Matches 1263; Conservative 0; Mismatches 6; Indels 0; Gaps 0;				
QY	52	ACTGACCCCTGGGAGAGCCCTCCAGAGAGAGTGGGGAGAGAACCCCAAGCTA	111	
DB	272	ACTTCCTTTAGGGGAGAGCTCCCAAGAGAGAGTGGGGAGAGAACCCCAAGCTA	331	
QY	112	GTCCAGAGAGAGAGAGTGAATTTTACAGATCTCTCGCTCTTCAAG	171	
DB	332	GTCCAGAGAGAGAGAGTGAATTTTACAGATCTCTCGCTCTTCAAG	391	
QY	172	GAGATGAGAGAGAGATTCATGAGAGAGAGTTCATGAGAGTTCATGAGTTC	231	
DB	392	GAGATGAGAGAGAGATTCATGAGAGAGAGTTCATGAGAGTTCATGAGTTC	451	
QY	232	CTGAACCCCAAGAGAGAGTGGCATTCGAGTCTGCTCCAGCTGGGAGACCTTCACG	291	

Db	432	CTGAACCCCAAGCAGAGCTGGCCATTGGAGTCTGTGCTTCAAGCTTGGACACTTTCACG	511
OY	292	GTCCTGAGAAACCTTCCTGCTGTGTGTGCTGATCTTTCATCTCCGAGCCTCCGCTCAGG	351
Db	512	GTCCTGAGAAACCTTCCTGCTGTGTGTGCTGATCTTTCATCTCCGAGCCTCCGCTCAGG	571
OY	352	CCTTCTTACCACTTGAATGGGAGCCCTGGGGGGGGAGACCTCTGGGGAGTGTCAATTTT	411
Db	572	CCTTCTTACCACTTGAATGGGAGCCCTGGGGGGGGAGACCTCTGGGGAGTGTCAATTTT	631
OY	412	GTCACAGCTTCACTTGAATCCAGGTTCACACGGCAAGATAGACCGCAACGTGTTCG	471
Db	632	GTCACAGCTTCACTTGAATCCAGGTTCACACGGCAAGATAGACCGCAACGTGTTCG	691
OY	472	TTCAAACTGGGGGTCAAGGCTCTTCACTGCTCCGTGGGCAAGCTGTTCTCACA	531
Db	692	TTCAAACTGGGGGTCAAGGCTCTTCACTGCTCCGTGGGCAAGCTGTTCTCACA	751
OY	532	GCCATCGACAGGTATATATCAATTCACAGGCCCCGACTATATAGAGATTGTCAACAG	591
Db	752	GCCATCGACAGGTATATATCAATTCACAGGCCCCGACTATATAGAGATTGTCAACAG	811
OY	592	CCCAAGCCGTGTAGCGTTTGTGCTGATGTGACATAGCCATTGTATGTGCGCTGTG	651
Db	812	CCCAAGCCGTGTAGCGTTTGTGCTGATGTGACATAGCCATTGTATGTGCGCTGTG	871
OY	652	CCTCTCTGGGGTGAACCTGCGAAGAACTGCAATCTGTTGTCAGACTTTTCCACAC	711
Db	872	CCTCTCTGGGGTGAACCTGCGAAGAACTGCAATCTGTTGTCAGACTTTTCCACAC	931
OY	712	ATTGATGAACCTTACCTGATGTTCCTGAGATCGGGGTCAACAGCGTACTGCTGTGTATC	771
Db	932	ATTGATGAACCTTACCTGATGTTCCTGAGATCGGGGTCAACAGCGTACTGCTGTGTATC	991
OY	772	GTTATATGGGTACATATATATTTCTCTGGAAGGCTCACAGCCAGCCGTCCGATGATTACG	831
Db	992	GTTATATGGGTACATATATATTTCTCTGGAAGGCTCACAGCCAGCCGTCCGATGATTACG	1051
OY	832	CGTGAACCCAGAGAAGACATCATATCCACAGTCTGAGAGATGGGAAGGTACAGGTGAC	891
Db	1052	CGTGAACCCAGAGAAGACATCATATCCACAGTCTGAGAGATGGGAAGGTACAGGTGAC	1111
OY	892	CGGCGAAGCCAGAGCCCGCATGGACATTAGGTTAGCCAAAGCCCTGTCTGTATCTGTG	951
Db	1112	CGGCGAAGCCAGAGCCCGCATGGACATTAGGTTAGCCAAAGCCCTGTCTGTATCTGTG	1171
OY	952	GGTGTGATCATATGCTGGGGCCCTCTGCTTGAATCAGTGTGTATGATCTTTTGGAG	1011
Db	1172	GGTGTGATCATATGCTGGGGCCCTCTGCTTGAATCAGTGTGTATGATCTTTTGGAG	1231
OY	1012	ATGAACAAGCTCATTAGAAGCGGTGTTTGCAATCTGCAATATCTCTGCTGTGAACCTC	1071
Db	1232	ATGAACAAGCTCATTAGAAGCGGTGTTTGCAATCTGCAATATCTCTGCTGTGAACCTC	1291
OY	1072	ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAAGACCTTGCAACAGCTTTCGAGAC	1131
Db	1292	ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAAGACCTTGCAACAGCTTTCGAGAC	1351
OY	1132	ATGTTTCCCTCTTGTGAAGGCACTGGGAGCCTCTGGAATTAAGATGGGGGACCTGGAC	1191
Db	1352	ATGTTTCCCTCTTGTGAAGGCACTGGGAGCCTCTGGAATTAAGATGGGGGACCTGGAC	1411
OY	1192	TGCTGCACAACAGCGAAACATGCAAGCAAGTGTTCACAGGCGCGAGAAAGCTGCATC	1251
Db	1412	TGCTGCACAACAGCGAAACATGCAAGCAAGTGTTCACAGGCGCGAGAAAGCTGCATC	1471
OY	1252	AAGACACAGGTCAAGATTGGCCAGGTAAACATGTCTGTGTCCACAGACAGCTGTGCCAG	1311
Db	1472	AAGACACAGGTCAAGATTGGCCAGGTAAACATGTCTGTGTCCACAGACAGCTGTGCCAG	1531
OY	1312	GCTCTGTGA 1320	

```

DB              1532 GCTCTGTGA 1540

RESULT 2
US-10-482-029-171
; Sequence 171, Application US/10482029
; Publication No. US20050037445A1
; GENERAL INFORMATION:
; APPLICANT: ODIN medical A/S
; TITLE OF INVENTION: Oncology drug innovation
; FILE REFERENCE: P 573 PC00
; CURRENT APPLICATION NUMBER: US/10/482,029
; CURRENT FILING DATE: 2003-12-29
; NUMBER OF SEQ ID NOS: 437
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 171
; LENGTH: 5665
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-482-029-171

```

Query Match	95.4%	Score 1259.4	DB 9	Length 5665
Beet Local Similarity	99.5%	Pred. No. 0		
Matches 1263	Conservative	0	Mismatches 6	Indels 0
			Gaps	0
QY	52	ACTGACCTCTCGGGAAAGTCCCTTCCAGAGAAATGACTGCGGGAGACAACCCCCACCTA	111	
Db	272	ACTTCCTTTAGGGGAAGTCCCTTCCAGAGAAATGACTGCGGGAGACAACCCCCACCTA	331	
QY	112	GTCCAGAGAACCGAGGTGAACATTACAGAAATTTTACAAAGTCTCTCTGCTCTTCAAG	171	
Db	332	GTCCAGAGAACCGAGGTGAACATTACAGAAATTTTACAAAGTCTCTCTGCTCTTCAAG	391	
QY	172	GAGAAATGAGGAACATCAGTGTGGGGAGAACTTCAATGACATTAAGATGTTTCATGTC	231	
Db	392	GAGAAATGAGGAACATCAGTGTGGGGAGAACTTCAATGACATTAAGATGTTTCATGTC	451	
QY	232	CTGAACCCGACCCAGCAGCTGGCCATTTGACAGTCTCTGCTCCTCAGCTGGGACCTTACG	291	
Db	452	CTGAACCCGACCCAGCAGCTGGCCATTTGACAGTCTCTGCTCCTCAGCTGGGACCTTACG	511	
QY	292	GTCTTGAAGAACCTTCCTGATGCTGTGGTCAATCTTCAATCCCGCAGCTCCCGGTGAGG	351	
Db	512	GTCTTGAAGAACCTTCCTGATGCTGTGGTCAATCTTCAATCCCGCAGCTCCCGGTGAGG	571	
QY	352	CCTTCTTCACTTCATTCGCGAGCGCTGGCGGTGAGACCTCTGGGGAGTGCATTTTT	411	
Db	572	CCTTCTTCACTTCATTCGCGAGCGCTGGCGGTGAGACCTCTGGGGAGTGCATTTTT	631	
QY	412	GTCTACAGCTTCATTGACTTCCACGTGTTCCACCGCAAAAGATAGCCGACAGTGTCTG	471	
Db	632	GTCTACAGCTTCATTGACTTCCACGTGTTCCACCGCAAAAGATAGCCGACAGTGTCTG	691	
QY	472	TTTCAACCTGGGTGGGGGTACGGGCTCCTTCACTGCTCCGGGGCAGCTGTTCTTACA	531	
Db	692	TTTCAACCTGGGTGGGGGTACGGGCTCCTTCACTGCTCCGGGGCAGCTGTTCTTACA	751	
QY	532	GCCATTCGACAGGTACATATTCATTCAACAGGCCCTCGGCTTAAAGAGATTTGTACAGG	591	
Db	752	GCCATTCGACAGGTACATATTCATTCAACAGGCCCTCGGCTTAAAGAGATTTGTACAGG	811	
QY	592	CCCAAGGCGGTGTAGCGTTTTGCTGTGATGTGACCATAGCCATTGTGATGCGCGTGTG	651	
Db	812	CCCAAGGCGGTGTAGCGTTTTGCTGTGATGTGACCATAGCCATTGTGATGCGCGTGTG	871	
QY	652	CCTCTCCTGGGCTGGAACGTGCGAGAAACTGCAATCTGTTTGTCTAGACATTTTCCACAC	711	
Db	872	CCTCTCCTGGGCTGGAACGTGCGAGAAACTGCAATCTGTTTGTCTAGACATTTTCCACAC	931	
QY	712	ATTGATGAACCTTACTGATGTTCTGGAATCGGGGTCAACAGCTACTGCTTCTGTTCATC	771	
Db	932	ATTGATGAACCTTACTGATGTTCTGGAATCGGGGTCAACAGCTACTGCTTCTGTTCATC	991	

QY 772 GTGATGCGTACATGATATATCTCTGGAAGGCTCA CAGCCAGCCGTCGCGATGATTGAG 831
|
|
|
Db 992 GTGATGCGTACATGATATATCTCTGGAAGGCTCA CAGCCAGCCGTCGCGATGATTGAG 1051
|
|
|
QY 832 CGTGGACCCGAGAGAGCATCATCA CACGCTGAGAGATGGAGGTACAGGTGACC 891
|
|
|
Db 1052 CGTGGACCCGAGAGAGCATCATCA CACGCTGAGAGATGGAGGTACAGGTGACC 1111
|
|
|
QY 892 CGGCGACGACGAGCCGCGCATGAGCATTAAGGTAGCCAGACCCCTGGTCTGATCCTGGTG 951
|
|
|
Db 1112 CGGCGACGACGAGCCGCGCATGAGCATTAAGGTAGCCAGACCCCTGGTCTGATCCTGGTG 1171
|
|
|
QY 952 GTGTGATCATCTGCTGGGGCCCTGCTGCTGCAATCATGTGTATGATGTCCTTGGAGAG 1011
|
|
|
Db 1172 GTGTGATCATCTGCTGGGGCCCTGCTGCTGCAATCATGTGTATGATGTCCTTGGAGAG 1231
|
|
|
QY 1012 ATGAACAAGCTCATTAAGACGGGTGTTGCAATCTGCAAGTANGCTGCTGCTGCAACTCC 1071
|
|
|
Db 1232 ATGAACAAGCTCATTAAGACGGGTGTTGCAATCTGCAAGTANGCTGCTGCTGCAACTCC 1291
|
|
|
QY 1072 ACCGTGAACCCGACATCATATGCTCTGAGAGTAAAGACCTGCGACAGCTTCCGAGAC 1131
|
|
|
Db 1292 ACCGTGAACCCGACATCATATGCTCTGAGAGTAAAGACCTGCGACAGCTTCCGAGAC 1351
|
|
|
QY 1132 ATGTTCCCTCTTGTGAAGGCACTGCGAGCCCTGGAATTAAGAGATGGGGGACTCGAGC 1191
|
|
|
Db 1352 ATGTTCCCTCTTGTGAAGGCACTGCGAGCCCTGGAATTAAGAGATGGGGGACTCGAGC 1411
|
|
|
QY 1192 TGCGTGCAAAACGCAAAACAGTACAGCCAGCTGTTCAAGGGCCGCAAGAAAGCTGCATC 1251
|
|
|
Db 1412 TGCGTGCAAAACGCAAAACAGTACAGCCAGCTGTTCAAGGGCCGCAAGAAAGCTGCATC 1471
|
|
|
QY 1252 AAGAGCAGGTCAAGATGTCGCAAGGTAAACATGCTGTGTCTGCAAGACAGCTTCCGAG 1311
|
|
|
Db 1472 AAGAGCAGGTCAAGATGTCGCAAGGTAAACATGCTGTGTCTGCAAGACAGCTTCCGAG 1531
|
|
|
QY 1312 GCTCTGTGA 1320
|
|
|
Db 1532 GCTCTGTGA 1540
|
|
|

RESULT 3

US-10-851-667A-24
; Sequence 24, Application US/10851667A
; Publication No. US20050260608A1
; GENERAL INFORMATION:
; APPLICANT: Zimmer, Andreas
; APPLICANT: Karsak, Meliha
; APPLICANT: de Vernejoul, Marie-Christine
; APPLICANT: Bab, Itai
; APPLICANT: Shoham, Esther
; APPLICANT: Mechoulam, Raphael
; TITLE OF INVENTION: METHODS, KITS AND PHARMACEUTICAL COMPOSITIONS FOR DIAGNOSING,
; TITLE OF INVENTION: DELAYING ONSET OF, PREVENTING AND/OR TREATING OSTEOPOROSIS
; FILE REFERENCE: 28030
; CURRENT APPLICATION NUMBER: US/10/851,667A
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 24
; LENGTH: 5665
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-851-667A-24

Query Match 95.4%; Score 1259.4; DB 10; Length 5665;
Best Local Similarity 99.5%; Pred. No. 0;
Matches 1263; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 52 ACTGACCTCTGAGAAAGTCCCTTCCAGAGAAAGTGAAGTGGGAGAGACACCCCAAGCTTA 111
|
|
|
Db 272 ACTTCCCTTTAGGGAGAGTCCCTTCCAGAGAAAGTGAAGTGGGAGAGACACCCCAAGCTTA 331
|
|
|

QY 112 GTCCAGAGACAGAGGTGAACATTA CAGAAATTTTAA CAAAGTCTCTCGCTTCAAG 171
|
|
|
Db 332 GTCCAGAGACAGAGGTGAACATTA CAGAAATTTTAA CAAAGTCTCTCGCTTCAAG 391
|
|
|
QY 172 GAGAAATGAGAGAAACATCAAGTGGGAGAACTTCAATGACATAGAGTGTTCATGATC 231
|
|
|
Db 392 GAGAAATGAGAGAAACATCAAGTGGGAGAACTTCAATGACATAGAGTGTTCATGATC 451
|
|
|
QY 232 CTGAACCCGACGACAGAGTGGCAATTCAGATCTGTCTCTCAAGCTGAGGACCTTCAAG 291
|
|
|
Db 452 CTGAACCCGACGACAGAGTGGCAATTCAGATCTGTCTCTCAAGCTGAGGACCTTCAAG 511
|
|
|
QY 292 GTCCAGAGAACTCTGAGTGTGAGTCAATCTTCCATCTCCGAGAGCTCCGCTGAGAG 351
|
|
|
Db 512 GTCCAGAGAACTCTGAGTGTGAGTCAATCTTCCATCTCCGAGAGCTCCGCTGAGAG 571
|
|
|
QY 352 CTTTCTCAACCTTCAATGAGAGAGCTGAGAGAGCTGAGAGAGCTTGGAGAGTCAATTTT 411
|
|
|
Db 572 CTTTCTCAACCTTCAATGAGAGAGCTGAGAGAGCTGAGAGAGCTTGGAGAGTCAATTTT 631
|
|
|
QY 412 GTTACAGCTTCAATTAAGCTTCAAGTGTTCACCGCAAGATAGCCGCAAGCTGTTCTG 471
|
|
|
Db 632 GTTACAGCTTCAATTAAGCTTCAAGTGTTCACCGCAAGATAGCCGCAAGCTGTTCTG 691
|
|
|
QY 472 TTCAAACTGGGTGGGTGACAGGCTCTTCACTGCTCCGTGGGAGAGCTGTTCTTCA 531
|
|
|
Db 692 TTCAAACTGGGTGGGTGACAGGCTCTTCACTGCTCCGTGGGAGAGCTGTTCTTCA 751
|
|
|
QY 532 GCATCGACAGATCATATTCATTCACAGGAGCCCTGAGCTTAAAGAGATTTGTCCAGAG 591
|
|
|
Db 752 GCATCGACAGATCATATTCATTCACAGGAGCCCTGAGCTTAAAGAGATTTGTCCAGAG 811
|
|
|
QY 592 CCAGAGCCGTTGATGAGCTTTCCTGATGTGACCAATAGCCATTTGTGAGCCGCTG 651
|
|
|
Db 812 CCAGAGCCGTTGATGAGCTTTCCTGATGTGACCAATAGCCATTTGTGAGCCGCTG 871
|
|
|
QY 652 CCTCTCTGGGCTGGAACCTGAGAAACTGGAATCTGTTTCTCAGAAATTTTCCACAC 711
|
|
|
Db 872 CCTCTCTGGGCTGGAACCTGAGAAACTGGAATCTGTTTCTCAGAAATTTTCCACAC 931
|
|
|
QY 712 ATTGATGAACCTTACCTGATGTTCTGATCGGGGTCAACAGCTACTGCTTCTGTTCAATC 771
|
|
|
Db 932 ATTGATGAACCTTACCTGATGTTCTGATCGGGGTCAACAGCTACTGCTTCTGTTCAATC 991
|
|
|
QY 772 GTGATGCGTACATGATATATCTCTGGAAGGCTCA CAGCCAGCCGTCGATATTCAG 831
|
|
|
Db 992 GTGATGCGTACATGATATATCTCTGGAAGGCTCA CAGCCAGCCGTCGATATTCAG 1051
|
|
|
QY 832 CGTGGACCCGAGAGAGCATCATCA CACGCTGAGAGATGGAGGTACAGGTGACC 891
|
|
|
Db 1052 CGTGGACCCGAGAGAGCATCATCA CACGCTGAGAGATGGAGGTACAGGTGACC 1111
|
|
|
QY 892 CGGCGACGACGAGCCGCGCATGAGCATTAAGGTAGCCAGACCCCTGGTCTGATCCTGGTG 951
|
|
|
Db 1112 CGGCGACGACGAGCCGCGCATGAGCATTAAGGTAGCCAGACCCCTGGTCTGATCCTGGTG 1171
|
|
|
QY 952 GTGTGATCATCTGCTGGGGCCCTGCTGCTGCAATCATGTGTATGATGTCCTTGGAGAG 1011
|
|
|
Db 1172 GTGTGATCATCTGCTGGGGCCCTGCTGCTGCAATCATGTGTATGATGTCCTTGGAGAG 1231
|
|
|
QY 1012 ATGAACAAGCTCATTAAGACGGGTGTTGCAATCTGCAAGTANGCTGCTGCTGCAACTCC 1071
|
|
|
Db 1232 ATGAACAAGCTCATTAAGACGGGTGTTGCAATCTGCAAGTANGCTGCTGCTGCAACTCC 1291
|
|
|
QY 1072 ACCGTGAACCCGACATCATATGCTCTGAGAGTAAAGACCTGCGACAGCTTCCGAGAC 1131
|
|
|
Db 1292 ACCGTGAACCCGACATCATATGCTCTGAGAGTAAAGACCTGCGACAGCTTCCGAGAC 1351
|
|
|
QY 1132 ATGTTCCCTCTTGTGAAGGCACTGCGAGCCCTGGAATTAAGAGATGGGGGACTCGAGC 1191
|
|
|
Db 1352 ATGTTCCCTCTTGTGAAGGCACTGCGAGCCCTGGAATTAAGAGATGGGGGACTCGAGC 1411
|
|
|
QY 1192 TGCGTGCAAAACGCAAAACAGTACAGCCAGCTGTTCAAGGGCCGCAAGAAAGCTGCATC 1251
|
|
|

Db 1412 TGCCGCAACAACGCAACATGACGAGTGTTCACAGGGCCGCAAGAAAGCTGCATC 1471
Qy 1252 AAGAGCAGGTCAAGATTGCGCAAGGTAAACATGTCTGTGTCCACAGACAGCTCTGCGAG 1311
Db 1472 AAGAGCAGGTCAAGATTGCGCAAGGTAAACATGTCTGTGTCCACAGACAGCTCTGCGAG 1531
Qy 1312 GCTCTGTGA 1320
Db 1532 GCTCTGTGA 1540

RESULT 4
US-10-029-386-24875
; Sequence 24875, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G
; FILE REFERENCE: AECOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 24875
; LENGTH: 1419
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL136096.2
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.22
; OTHER INFORMATION: SWISSPROT HIT: P21554, EVALU0.00e+00
; OTHER INFORMATION: NT HIT: g16173524, EVALU0.00e+00
; OTHER INFORMATION: EST_HUMAN HIT: M7952.1, EVALU0.00e+00
US-10-029-386-24875

Query Match 95.3%; Score 1257.8; DB 7; Length 1419;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1262; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 52 ACTGACCTCTGGGAGAGTCCCTTCCAGAGAGATGACGCGGAGACACCCCGAGCTA 111
Db 151 ACTTCTTTAGGGAGAGTCCCTTCCAGAGAGAGATGACGCGGAGACACCCCGAGCTA 210
Qy 112 GTCCGAGAGACAGAGTGAACATTAACAGATTTTCAACAAGTCTCTCGTCTTCAAG 171
Db 211 GTCCGAGAGACAGAGTGAACATTAACAGATTTTCAACAAGTCTCTCGTCTTCAAG 270
Qy 172 GAGAAATGAGAGAACATTCAGTGTGGGAGAACTTCATGACATGAGTGTTCATGTC 231
Db 271 GAGAAATGAGAGAACATTCAGTGTGGGAGAACTTCATGACATGAGTGTTCATGTC 330
Qy 232 CTGAACCCCGAGACAGAGTGGCACTTGGACGTCCTGCTCCCTGAGCCTGGGACCTTCAAG 291
Db 331 CTGAACCCCGAGACAGAGTGGCACTTGGACGTCCTGCTCCCTGAGCCTGGGACCTTCAAG 390
Qy 292 GTCTGAGAGAACCTCTGGTGTGTGCTGATCTTCACACTCCGAGAGCTCCGCTGACAG 351
Db 391 GTCTGAGAGAACCTCTGGTGTGTGCTGATCTTCACACTCCGAGAGCTCCGCTGACAG 450
Qy 352 CTTTCTTCAACACTTATGCGAGCCTGGCGGTGGAGACCTTCGCGGAGTGTCAATTTT 411
Db 451 CTTTCTTCAACACTTATGCGAGCCTGGCGGTGGAGACCTTCGCGGAGTGTCAATTTT 510
Qy 412 GTCTACAGTTTATTTGATTTCACTGCTTCCACCGAAGATAGCCGCAAGTGTTCG 471
Db 511 GTCTACAGTTTATTTGATTTCACTGCTTCCACCGAAGATAGCCGCAAGTGTTCG 570
Qy 472 TTCAAACTGGGTGGGTGACGGCTCTCAGTGCCTCGTGGGAGAGCTGTTCCTCAACA 531

Db 571 TTCAAACTGGGTGGGTGACGGCTCTCCTTCACTGCTCCGNGGAGAGCTGTTCCTCAACA 630
Qy 532 GCCATCGACAGGTACATATTCATTCAAGAGCCCTGTGCTTATAGAGATTGTACAGAG 591
Db 631 GCCATCGACAGGTACATATTCATTCAAGAGCCCTGTGCTTATAGAGATTGTACAGAG 690
Qy 592 CCCAAGGCGGTGAGAGCTTTTGGCTGATGTGACACATAGCATTTGATGCGGTGTG 651
Db 691 CCCAAGGCGGTGAGAGCTTTTGGCTGATGTGACACATAGCATTTGATGCGGTGTG 750
Qy 652 CCTCTCTGGGCTGAACTGCGAGAAACTGCATCTGTTTGTCTGACACATTTTCCACAC 711
Db 751 CCTCTCTGGGCTGAACTGCGAGAAACTGCATCTGTTTGTCTGACACATTTTCCACAC 810
Qy 712 ATTATGAAACCTTACCTGATTTTGTGATGCGGGGTCCACGCGTACCTTCTGTATC 771
Db 811 ATTATGAAACCTTACCTGATTTTGTGATGCGGGGTCCACGCGTACCTTCTGTATC 870
Qy 772 GTGTATGCTATGATTAATCTCTGAGAGGCTCAAGCCAGCCGCTCCGATGATTCAG 831
Db 871 GTGTATGCTATGATTAATCTCTGAGAGGCTCAAGCCAGCCGCTCCGATGATTCAG 930
Qy 832 CGTGGACCCGAGAGAGCATATCATCAAGCTTGAAGATGAGGAAAGTACAGTACC 891
Db 931 CGTGGACCCGAGAGAGCATATCATCAAGCTTGAAGATGAGGAAAGTACAGTACC 990
Qy 892 CGGCGACACCAAGCCCGCATGAGATTAAGTGTACCAAGCCGTGCTGTATCTGTG 951
Db 991 CGGCGACACCAAGCCCGCATGAGATTAAGTGTACCAAGCCGTGCTGTATCTGTG 1050
Qy 952 GTGTGATCATCTGTGGGGCCCTCTGCTTCAATCAATGATGATGATCTTTGGAGAG 1011
Db 1051 GTGTGATCATCTGTGGGGCCCTCTGCTTCAATCAATGATGATGATCTTTGGAGAG 1110
Qy 1012 ATGAACAAGCTATTAGACGCTGTGTGATTTGACATTTGACATGATGCTGTGTAACCTCC 1071
Db 1111 ATGAACAAGCTATTAGACGCTGTGTGATTTGACATTTGACATGATGCTGTGTAACCTCC 1170
Qy 1072 ACCGTGAACCCCATCATATGCTCTGAGAGTAAAGACCTGGGACCGCTTCCGAGC 1131
Db 1171 ACCGTGAACCCCATCATATGCTCTGAGAGTAAAGACCTGGGACCGCTTCCGAGC 1230
Qy 1132 ATGTTTCCCTTGTGAAGGACATGCGAGCCTCTGTGTAACAGATGGGAGACTCGAGC 1191
Db 1231 ATGTTTCCCTTGTGAAGGACATGCGAGCCTCTGTGTAACAGATGGGAGACTCGAGC 1290
Qy 1192 TGCCGCAACAACGCAACATATGACGCTGATTCACAGGGCCGCAAGAAAGCTGCATC 1251
Db 1291 TGCCGCAACAACGCAACATATGACGCTGATTCACAGGGCCGCAAGAAAGCTGCATC 1350
Qy 1252 AAGAGCAGGTCAAGATTGCGCAAGGTAAACATGTCTGTGTCCACAGACAGCTGCGAG 1311
Db 1351 AAGAGCAGGTCAAGATTGCGCAAGGTAAACATGTCTGTGTCCACAGACAGCTGCGAG 1410
Qy 1312 GCTCTGTGA 1320
Db 1411 GCTCTGTGA 1419

RESULT 5
US-10-225-567A-83
; Sequence 83, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: Lifespan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burner, Glema C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144

PRIOR FILING DATE: 2000-12-19
NUMBER OF SEQ ID NOS: 2292
SOFTWARE: PatentIn version 3.1
SEQ ID NO 83
LENGTH: 1755
TYPE: DNA
ORGANISM: Homo sapiens
US-10-225-567A-83

Query Match 95.3%; Score 1257.8; DB 6; Length 1755;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1562; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

```
QY 52 ACTGACCTCTGGGAAAGTCCCTCCAGAGAAATGACCTGGGGAGACAAACCCCAAGTAA 111
DB 299 ACTTCTTTAGGGAGAGTCCCTTCCAGAGAAATGACCTGGGGAGACAAACCCCAAGTAA 358
QY 112 GTCCAGACAGACAGGTGAACATTAAGAAATTTTACAAAGTCTCTCTGCTCTTCAAG 171
DB 359 GTCCAGACAGACAGGTGAACATTAAGAAATTTTACAAAGTCTCTCTGCTCTTCAAG 418
QY 172 GAGAAATGAGAGAAACATCCAGTGTGGGAGAACTTCATGACATAGAGTGTTCATGTC 231
DB 419 GAGAAATGAGAGAAACATCCAGTGTGGGAGAACTTCATGACATAGAGTGTTCATGTC 478
QY 232 CTGAACCCCGACAGAGCTGGCCATTTGAGTCCCTGCTGACGCTGGGACCTTCAAG 291
DB 479 CTGAACCCCGACAGAGCTGGCCATTTGAGTCCCTGCTGACGCTGGGACCTTCAAG 538
QY 292 GTCTGAGAGAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 351
DB 539 GTCTGAGAGAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 598
QY 352 CTTTCTTACCACTTCAATCGGACGCTGGCGGTGGACAGCTCTCTGGGAGGTCAATTTT 411
DB 599 CTTTCTTACCACTTCAATCGGACGCTGGCGGTGGACAGCTCTCTGGGAGGTCAATTTT 658
QY 412 GTCTGAGCTTCAATTTGACCTTCAAGGTTCACACCGAAAGATAGCGGACGTTTCTG 471
DB 659 GTCTGAGCTTCAATTTGACCTTCAAGGTTCACACCGAAAGATAGCGGACGTTTCTG 718
QY 472 TTCAAACTGGGTGGGTCAAGGCTCTCTTCACTGCTCTGCTGGGACGCTGTTCTCA 531
DB 719 TTCAAACTGGGTGGGTCAAGGCTCTCTTCACTGCTCTGCTGGGACGCTGTTCTCA 778
QY 532 GCCATGACAGGTACATATCCATTCAACAGGCCCTGGCTTATPAAGAGATTGTCAACAG 591
DB 779 GCCATGACAGGTACATATCCATTCAACAGGCCCTGGCTTATPAAGAGATTGTCAACAG 838
QY 592 CCCAAGGCGGTGGGTAGCGTTTGGCTGATGTGACATPAAGCATTTGATCCGCTGCTG 651
DB 839 CCCAAGGCGGTGGGTAGCGTTTGGCTGATGTGACATPAAGCATTTGATCCGCTGCTG 898
QY 652 CCTCTCTGGGTGGAACCTGCAAGAACTGCAATCTGTTTGTCTAGACATTTCCACAC 711
DB 899 CCTCTCTGGGTGGAACCTGCAAGAACTGCAATCTGTTTGTCTAGACATTTCCACAC 958
QY 712 ATTATGAACCTTACCTGATGTTCTGAGATCGGGGTCAACAGGTACTGCTTCTGTTCA 771
DB 959 ATTATGAACCTTACCTGATGTTCTGAGATCGGGGTCAACAGGTACTGCTTCTGTTCA 1018
QY 772 GTGTATGGGTACATATATTTCTCTGGAAGGCTCAACAGCCGCTCCGATGATTTAG 831
DB 1019 GTGTATGGGTACATATATTTCTCTGGAAGGCTCAACAGCCGCTCCGATGATTTAG 1078
QY 832 CGTGGACCCCAAGAGAGATCATTCACACAGTCTGAGATGGAGAGGTACAGGTGACC 891
DB 1079 CGTGGACCCCAAGAGAGATCATTCACACAGTCTGAGATGGAGAGGTACAGGTGACC 1138
QY 892 CGGCGACACCAAGCCCGCATGACATTAGGTTAGCCAAAGACCTGTGCTCTGATCTG 951
DB 1139 CGGCGACACCAAGCCCGCATGACATTAGGTTAGCCAAAGACCTGTGCTCTGATCTG 1198
```

```
QY 952 GGTGATGATCTGCTGGGGCCCTCTGCTTGGAAATCATGATGATGATGATGATGATGATG 1011
DB 1199 GGTGATGATCTGCTGGGGCCCTCTGCTTGGAAATCATGATGATGATGATGATGATGATG 1258
QY 1012 ATGAACAGCTCATTAAGACGGGTGTTGCAATCTGCAATGATCTGCTGCTGCAATCC 1071
DB 1259 ATGAACAGCTCATTAAGACGGGTGTTGCAATCTGCAATGATCTGCTGCTGCAATCC 1318
QY 1072 ACCGTGAACCCCATATCTATGCTTGAAGAGTAAGACCTGCAACGCTTCCGAGC 1131
DB 1319 ACCGTGAACCCCATATCTATGCTTGAAGAGTAAGACCTGCAACGCTTCCGAGC 1378
QY 1132 ATGTTTCCCTTGTGAAGGCACTGCGAGCCTCTGATTAACAGATGAGGAGCTCGAC 1191
DB 1379 ATGTTTCCCTTGTGAAGGCACTGCGAGCCTCTGATTAACAGATGAGGAGCTCGAC 1438
QY 1192 TCCCTGCAAAACAGCAACATGCAACAGTGTTCACAGGCGGCAAAAGCTGCAATC 1251
DB 1439 TCCCTGCAAAACAGCAACATGCAACAGTGTTCACAGGCGGCAAAAGCTGCAATC 1498
QY 1252 AAGACAGGTCAAGATTGCCAAGGTAACATGCTGTGTCCACAGACAGCTTCCGAG 1311
DB 1499 AAGACAGGTCAAGATTGCCAAGGTAACATGCTGTGTCCACAGACAGCTTCCGAG 1558
QY 1312 GCTGTGTA 1320
DB 1559 GCTGTGTA 1567
```

RESULT 6
US-10-295-027-235
Sequence 235, Application US/10295027
Publication No. US20030232350A1
GENERAL INFORMATION:
APPLICANT: Afar, Daniel
APPLICANT: Aziz, Natasha
APPLICANT: Ginsberg, Wendy M.
APPLICANT: Glsh, Kurt C.
APPLICANT: Glyne, Richard
APPLICANT: Hevezi, Peter A.
APPLICANT: Mack, David H.
APPLICANT: Murray, Richard
APPLICANT: Watson, Susan R.
APPLICANT: Eos Biotechnology, Inc.
TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
FILE REFERENCE: 018501-012500US
CURRENT APPLICATION NUMBER: US/10/295,027
PRIORITY FILING DATE: 2002-11-13
PRIORITY APPLICATION NUMBER: US 09/663,733
PRIORITY FILING DATE: 2000-09-15
PRIORITY APPLICATION NUMBER: US 60/350,666
PRIORITY FILING DATE: 2001-11-13
PRIORITY APPLICATION NUMBER: US 60/335,394
PRIORITY FILING DATE: 2001-11-15
PRIORITY APPLICATION NUMBER: US 60/332,464
PRIORITY FILING DATE: 2001-11-21
PRIORITY APPLICATION NUMBER: US 60/334,393
PRIORITY FILING DATE: 2001-11-29
PRIORITY APPLICATION NUMBER: US 60/340,376
PRIORITY FILING DATE: 2001-12-14
PRIORITY APPLICATION NUMBER: US 60/347,211
PRIORITY FILING DATE: 2002-01-08
PRIORITY APPLICATION NUMBER: US 60/347,349
PRIORITY FILING DATE: 2002-01-10
PRIORITY APPLICATION NUMBER: US 60/355,250
PRIORITY FILING DATE: 2002-02-08
PRIORITY APPLICATION NUMBER: US 60/356,714
PRIORITY FILING DATE: 2002-02-13
Remaining Prior Application data removed - See file wrapper or PALM.
NUMBER OF SEQ ID NOS: 1386
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 235

LENGTH: 1755
TYPE: DNA
ORGANISM: Homo sapiens
US-10-295-027-235

Query Match 95.3%; Score 1257.8; DB 7; Length 1755;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1262; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

```
OY 52 ACTGACCTCTGGGAAGTCCCTTCCAGAGAAAGATGATCTGCGGAGACACCCCAAGCTA 111
DB 299 ACTTCCTTTAGGGGAAGTCCCTTCCAGAGAAAGATGATCTGCGGAGACACCCCAAGCTA 358
OY 112 GTCCAGAGACCAAGGTGAACATTA CAGAAATTTTCAACAAGTCTCTCGGCTTCAAG 171
DB 359 GTCCAGAGACCAAGGTGAACATTA CAGAAATTTTCAACAAGTCTCTCGGCTTCAAG 418
OY 172 GAGAAATGAGAAATCATCATGATGAGGAGAACTTCAATGACATAGAGTGTTCATGATC 231
DB 419 GAGAAATGAGAAATCATCATGATGAGGAGAACTTCAATGACATAGAGTGTTCATGATC 478
OY 232 CTGAACCCCAAGCAGAGCTGSCCATTTGCAATCTCTGTCTCTGACGCTGGGACCTTCAAG 291
DB 479 CTGAACCCCAAGCAGAGCTGSCCATTTGCAATCTCTGTCTCTGACGCTGGGACCTTCAAG 538
OY 292 GTCCAGAGAACTCTGAGTGTGAGCTGATCTTCACTCCGAGAGCTCGCTGACAG 351
DB 539 GTCCAGAGAACTCTGAGTGTGAGCTGATCTTCACTCCGAGAGCTCGCTGACAG 598
OY 352 CTTTCTCAACAATTGATCGGACGCTGCGGAGAGACCTTCTGAGGAGTGTCAATTTT 411
DB 599 CTTTCTCAACAATTGATCGGACGCTGCGGAGAGACCTTCTGAGGAGTGTCAATTTT 658
OY 412 GTCTACAGCTTCAATTTGATCTTCAAGTGTTCACCGGAAAGATAGCCGCAAGTGTTCG 471
DB 659 GTCTACAGCTTCAATTTGATCTTCAAGTGTTCACCGGAAAGATAGCCGCAAGTGTTCG 718
OY 472 TTCAAACTGGGTGGGTGTCACGAGCTCTTCACTGCTCCGTTGGGAGAGCTGTTCCTACA 531
DB 719 TTCAAACTGGGTGGGTGTCACGAGCTCTTCACTGCTCCGTTGGGAGAGCTGTTCCTACA 778
OY 532 GGCATCGACAGGTACATATTCATTCACAGGCCCCCTGACCTATAGAGATTTGTCAAG 591
DB 779 GGCATCGACAGGTACATATTCATTCACAGGCCCCCTGACCTATAGAGATTTGTCAAG 838
OY 592 CCGAAGGCCGTGGTACGCTTTTCTGATATGAGACATAGCCATTTGTATGCGCTGCTG 651
DB 839 CCGAAGGCCGTGGTACGCTTTTCTGATATGAGACATAGCCATTTGTATGCGCTGCTG 898
OY 652 CTTCTCTGGGCTGGAACCTGAGAAATGCAATCTGTTTGTCAAGACATTTTCCACAG 711
DB 899 CTTCTCTGGGCTGGAACCTGAGAAATGCAATCTGTTTGTCAAGACATTTTCCACAG 958
OY 712 ATTGATGAACCTTACCTGATGTTTGTGATCGAGGCTCACAGGCTACCTGTCTGTTCATC 771
DB 959 ATTGATGAACCTTACCTGATGTTTGTGATCGAGGCTCACAGGCTACCTGTCTGTTCATC 1018
OY 772 GTGATATGGGTACATATTTTCTTCTGGAAGGCTCACAGCAGCCGTCCGATGATTCAG 831
DB 1019 GTGATATGGGTACATATTTTCTTCTGGAAGGCTCACAGCAGCCGTCCGATGATTCAG 1078
OY 832 CGTGGACCCAGAAAGCATCATCACTGTCAGAGATGGGAAAGTACAGGTGAC 891
DB 1079 CGTGGACCCAGAAAGCATCATCACTGTCAGAGATGGGAAAGTACAGGTGAC 1138
OY 892 CGGCGACGACCAAGCCCGCATGACATTAGGTTAGCCAAAGACCTGTGCTCTGATCTG 951
DB 1139 CGGCGACGACCAAGCCCGCATGACATTAGGTTAGCCAAAGACCTGTGCTCTGATCTG 1198
OY 952 GTGTTGATCATTTGCTGGGCGCTCTGCTTGAATCAATGATGATGATCTTTGGGAAG 1011
DB 1199 GTGTTGATCATTTGCTGGGCGCTCTGCTTGAATCAATGATGATGATCTTTGGGAAG 1258
```

```
OY 1012 ATGAACAAGCTATTAGA CCGTGTGTCATTTCTGACAGTATGCTCTGCTGTCGAAGCTCC 1071
DB 1259 ATGAACAAGCTATTAGA CCGTGTGTCATTTCTGACAGTATGCTCTGCTGTCGAAGCTCC 1318
OY 1072 ACCGTGAACCCCATCATCTATGCTCTGAGAGATAGAGACCTGCGACACGCTTTCCGAGC 1131
DB 1319 ACCGTGAACCCCATCATCTATGCTCTGAGAGATAGAGACCTGCGACACGCTTTCCGAGC 1378
OY 1132 ATGTTTCCCTTTTGTGAAGGACATGCGAGCTCTGATTAACACATGGGGGACCTCGAC 1191
DB 1379 ATGTTTCCCTTTTGTGAAGGACATGCGAGCTCTGATTAACACATGGGGGACCTCGAC 1438
OY 1192 TGCCGTGACAAACACGCAACATATGACACAGTGTTCACAGGCGCGAGAAAGCTGATC 1251
DB 1439 TGCCGTGACAAACACGCAACATATGACACAGTGTTCACAGGCGCGAGAAAGCTGATC 1498
OY 1252 AAGAGCAGGTCAAGATTTGCCAGGTAA CCAATGCTGTGTTCACACACAGTCTGCGAG 1311
DB 1499 AAGAGCAGGTCAAGATTTGCCAGGTAA CCAATGCTGTGTTCACACACAGTCTGCGAG 1558
OY 1312 GCTCTGTA 1320
DB 1559 GCTCTGTA 1567
```

RESULT 7

```
US-11-127-877-2
; Sequence 2, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:
; APPLICANT: Hoffmann, Pascal G.
; APPLICANT: Hoffmann, Marcel
; APPLICANT: Spitael, Koentraad F. F.
; APPLICANT: Leenen, Wendy
; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting
; FILE REFERENCE: P27, 800-B USA
; CURRENT APPLICATION NUMBER: US/11/127, 877
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2
; LENGTH: 1755
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-127-877-2
```

Query Match 95.3%; Score 1257.8; DB 15; Length 1755;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1262; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

```
OY 52 ACTGACCTCTGGGAAGTCCCTTCCAGAGAAAGATGATCTGCGGAGACACCCCAAGCTA 111
DB 299 ACTTCCTTTAGGGGAAGTCCCTTCCAGAGAAAGATGATCTGCGGAGACACCCCAAGCTA 358
OY 112 GTCCAGAGACCAAGGTGAACATTA CAGAAATTTTCAACAAGTCTCTGCTCTTCAAG 171
DB 359 GTCCAGAGACCAAGGTGAACATTA CAGAAATTTTCAACAAGTCTCTGCTCTTCAAG 418
OY 172 GAGAAATGAGAAATCATCATGATGAGGAGAACTTCAATGACATAGAGTGTTCATGATC 231
DB 419 GAGAAATGAGAAATCATCATGATGAGGAGAACTTCAATGACATAGAGTGTTCATGATC 478
OY 232 CTGAACCCCAAGCAGAGCTGSCCATTTGCAATCTCTGTCTCTGACGCTGGGACCTTCAAG 291
DB 479 CTGAACCCCAAGCAGAGCTGSCCATTTGCAATCTCTGTCTCTGACGCTGGGACCTTCAAG 538
OY 292 GTCTGAGAACTCTGAGTGTGAGCTGATCTTCACTCCGAGAGCTCGCTGACAG 351
```

Db	539	GTCTGTGAGAACTCTGGGCGTGTGGGTGATCCTTCACTCCGCGAGCCCTCGCTGCAAG	598
QY	352	CCTTCTTACCACTTATATCGGCAAGCTCGCGGTGGCAAGACTCTGTGGGAGGTGCATTTTT	411
Db	599	CCCTTCTTACCACTTATATCGGCAAGCTCGCGGTGGCAAGACTCTGTGGGAGGTGCATTTTT	658
QY	412	GTCTACAGCTTATTTAGCTTCCACGGTTCACACGGCAAAAGATGACCGCAACGGTTTTCTG	471
Db	659	GTCTACAGCTTATTTAGCTTCCACGGTTCACACGGCAAAAGATGACCGCAACGGTTTTCTG	718
QY	472	TTCAAACTGGGTGGGGTCAACGGGCTCTTTCACGTGCTCGGTGGGAGAGCTGTCTCTACA	531
Db	719	TTCAAACTGGGTGGGGTCAACGGGCTCTTTCACGTGCTCGGTGGGAGAGCTGTCTCTACA	778
QY	532	GCCATCGACAGGTACATATTCATTCAACAGGCCCTGTGACTTATAGAGATTTGTCAACAAG	591
Db	779	GCCATCGACAGGTACATATTCATTCAACAGGCCCTGTGACTTATAGAGATTTGTCAACAAG	838
QY	592	CCCAAGGCCGTGGTGGAGCTTTTGGCTGATGTGGACCATAGCACTTGTGATCGCCGTGCTG	651
Db	839	CCCAAGGCCGTGGTGGAGCTTTTGGCTGATGTGGACCATAGCACTTGTGATCGCCGTGCTG	898
QY	652	CCCTCTCTGGGCTGGAACTGCGAGAACTGCAATCTGTTTGGCTACAAATTTTCCACAC	711
Db	899	CCCTCTCTGGGCTGGAACTGCGAGAACTGCAATCTGTTTGGCTACAAATTTTCCACAC	958
QY	712	ATTGATGAACCTTACCTGATGTTCGTGATTCGGGGTCAACAGCGTACTGCTTCTGTATCAT	771
Db	959	ATTGATGAACCTTACCTGATGTTCGTGATTCGGGGTCAACAGCGTACTGCTTCTGTATCAT	1011
QY	772	GTGTATGGGTACATGTATATTTCTTGGAAAGCTCACAGCCAGCGGTCCGATGATTCAAG	831
Db	1019	GTGTATGGGTACATGTATATTTCTTGGAAAGGCTCACAGCCAGCGGTCCGATGATTCAAG	1077
QY	832	CGTGGCACCCAAGAGAGCATCATATCCAACGTCTGAAGATGGGAAAGTAAAGGTGAAC	891
Db	1079	CGTGGCACCCAAGAGAGCATCATATCCAACGTCTGAAGATGGGAAAGTAAAGGTGAAC	1133
QY	892	CGGCGAGAACCAAGCCCGCATGAGCATTTAGTTTGAACCAAGCCCTGTGCTGTATCCTGTG	951
Db	1139	CGGCGAGAACCAAGCCCGCATGAGCATTTAGTTTGAACCAAGCCCTGTGCTGTATCCTGTG	1199
QY	952	GTGTTGATCATCTGCTGGGGCCCTCTGCTTGCATCATGAGTGTATGATCTTTGGGAAG	1011
Db	1199	GTGTTGATCATCTGCTGGGGCCCTCTGCTTGCATCATGAGTGTATGATCTTTGGGAAG	1251
QY	1012	ATGAACAAGCTATTAAAGCGGTGTTTGAATTCGACAGTATGCTCTGCTCTGAACTCC	107
Db	1259	ATGAACAAGCTATTAAAGCGGTGTTTGAATTCGACAGTATGCTCTGCTCTGAACTCC	1311
QY	1072	ACCGTGAACCCCATCATCTATGCTCTGAAGAGTAAAGGACCTGCGACACAGCTTTCGGAGC	113
Db	1319	ACCGTGAACCCCATCATCTATGCTCTGAAGAGTAAAGGACCTGCGACACAGCTTTCGGAGC	1377
QY	1132	ATGTTTCCCTCTTGTGAAGGCACTGCGAGCCCTGTGATTAACAGCATGGGGGACTCGAGC	119
Db	1379	ATGTTTCCCTCTTGTGAAGGCACTGCGAGCCCTGTGATTAACAGCATGGGGGACTCGAGC	1433
QY	1132	TGCCCTGCAAAACAGCGAAACATGCAAGCAAGTGTTCACAGGGCCGCGAAGACTGTCATC	125
Db	1439	TGCCCTGCAAAACAGCGAAACATGCAAGCAAGTGTTCACAGGGCCGCGAAGACTGTCATC	1499
QY	1252	AAGAGCAAGGTCAAGATTGCCAAGGTAAACATGTCGTGTCCACAGACAGCATGTCGCGAG	131
Db	1499	AAGAGCAAGGTCAAGATTGCCAAGGTAAACATGTCGTGTCCACAGACAGCATGTCGCGAG	1559

```

; Sequence 27, Application US/11019829
; Publication No. US20050136465A1
; GENERAL INFORMATION:
; APPLICANT: Hoffmann-La Roche Inc.
; TITLE OF INVENTION: Novel targets for obesity from subcutaneous fat
; FILE REFERENCE: 22304
; CURRENT APPLICATION NUMBER: US/11/019,829
; CURRENT FILING DATE: 2004-12-22
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 27
; LENGTH: 5480
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: cannabinoid receptor 1 (brain) variant 1
; LOCATION: (1)..(5480)
; OTHER INFORMATION: LocustID: 1268; NM_016083
US-11-019-829-27

Query Match          95.3%; Score 1257.8; DB 13; Length 5480;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1262; Conservative 0; Mismatches 7; Indels 0; Gaps 0

QY      52   ACTGACCTCTCGGGAGATGTCCTTCCAGAGAAGATGACTCGGGAGACAACCCCACTTA
DB      214  ACTTCCTTTAAGGGGAAGTCCCTTCCAAGAGAAGATGACTGCGGAGACAACCCCACTTA
QY      112  GTCCACAGACACGAGTGAACATTACAGAAATTTTCAAAGTCTCTCTCGCTTCAAG
DB      274  GTCCACAGACACGAGTGAACATTACAGAAATTTTCAAAGTCTCTCTCGCTTCAAG
QY      172  GAGATGAGAGAAACATCAGTGTGGGAGAACCTTCATGACATAGAGTTCATGATC
DB      334  GAGATGAGAGAAACATCAGTGTGGGAGAACCTTCATGACATAGAGTTCATGATC
QY      232  CTGAACCCCAACCCAGACAGCTGACCATTGCAAGTCTCTTCCACGCTGGAGCACTTCAAG
DB      394  CTGAACCCCAACCCAGACAGCTGACCATTGCAAGTCTCTTCCACGCTGGAGCACTTCAAG
QY      292  GTCTTGAGAACTCTCTGTGTGTGTGTGCATCCTTCCACTCCCGAAGCTCCGCTGCAGG
DB      454  GTCTTGAGAACTCTCTGTGTGTGTGTGCATCCTTCCACTCCCGAAGCTCCGCTGCAGG
QY      352  CCTTCCTACACACTTCATCGGAGAGCTGGCGGTGGCAGACCTCTTGAGGAGTGCATTTTT
DB      514  CCTTCCTACACACTTCATCGGAGAGCTGGCGGTGGCAGACCTCTTGAGGAGTGCATTTTT
QY      412  GTCTACAGCTTCATTGACCTTCCAGGTGTTCACACCGCAAGAATGCCGCAACGTGTTCTG
DB      574  GTCTACAGCTTCATTGACCTTCCAGGTGTTCACACCGCAAGAATGCCGCAACGTGTTCTG
QY      472  TTCAAACCTGGGTGGGTGACCGGCTCCTTCACTGCTCTCGTGGGCAAGCTGTCTTCAACA
DB      634  TTCAAACCTGGGTGGGTGACCGGCTCCTTCACTGCTCTCGTGGGCAAGCTGTCTTCAACA
QY      532  GCCATGACAGGTATCATATCATTCACAGAGCCCGGCGCTATAAGAGATTTGTACACAGG
DB      694  GCCATGACAGGTATCATATCATTCACAGAGCCCGGCGCTATAAGAGATTTGTACACAGG
QY      592  CCCAAGGACCGGTGATGAGGTTTGTGCTGATGTGACACATAGCCATTTGATGCGCGGTG
DB      754  CCCAAGGACCGGTGATGAGGTTTGTGCTGATGTGACACATAGCCATTTGATGCGCGGTG
QY      652  CTTCTCTGGGCTGGAACCTGCGAGAAACTGCAATCTGTTTGTCTGACATTTTCCACAC
DB      814  CTTCTCTGGGCTGGAACCTGCGAGAAACTGCAATCTGTTTGTCTGACATTTTCCACAC
QY      712  ATTGATGAAAACCTACCTGATGTTTGTGATGGGGGTGACACAGGATAGTCTTGTGTATC
DB      874  ATTGATGAAAACCTACCTGATGTTTGTGATGGGGGTGACACAGGATAGTCTTGTGTATC
QY      772  GTGATGACGATACATGATATATCTCTGGAAGGCTCACAGCCAGCGCTCCGATGATTCAG

```

Db 924 GTGATGCGTACATGATATTTCTCTGGAAGCTCAAGCAGCGCTCGCATGATTCAG 993
Qy 832 CGTGCAACCCAGAAAGCATCATCAACAGCTCTGAGATGGAGATGAGGTACAGGTGAC 891
Db 994 CGTGACCCAGAAAGCATCATCAACAGCTCTGAGATGGAGATGAGGTACAGGTGAC 1053
Qy 892 CGGCGACAGCAAGCCCGCATGAGCATTAAGGTTAGCCAGAACCTGTGCTGATCCGTGAG 951
Db 1054 CGGCGACAGCAAGCCCGCATGAGCATTAAGGTTAGCCAGAACCTGTGCTGATCCGTGAG 1113
Qy 952 GTGTGATCATCTGCTGAGGAGCCCTCTGCTTGCAATCATGTTGATGATGCTTTGGAG 1011
Db 1114 GTGTGATCATCTGCTGAGGAGCCCTCTGCTTGCAATCATGTTGATGATGCTTTGGAG 1173
Qy 1012 ATGAACAAGCTATTAAAGCGGTGTTGATCTGCAATGATGCTGCTGCTGCAACTCC 1071
Db 1174 ATGAACAAGCTATTAAAGCGGTGTTGATCTGCAATGATGCTGCTGCTGCAACTCC 1233
Qy 1072 ACCGTAACCCCATCATATGCTCTGAGAGGATTAAGAGCATGCGACAGCTTTCCGAGC 1131
Db 1234 ACCGTAACCCCATCATATGCTCTGAGAGGATTAAGAGCATGCGACAGCTTTCCGAGC 1293
Qy 1132 ATGTTCCCTCTTGTGAAGGCACTGCGACGCTCTGATTAACAGCATGGGAGACTCGAC 1191
Db 1294 ATGTTCCCTCTTGTGAAGGCACTGCGACGCTCTGATTAACAGCATGGGAGACTCGAC 1353
Qy 1192 TGCCTGCAAAACGCAAAACATGACGCACTGTTCAAGGCGCGAGAAAGCTGCAATC 1251
Db 1354 TGCCTGCAAAACGCAAAACATGACGCACTGTTCAAGGCGCGAGAAAGCTGCAATC 1413
Qy 1252 AAGAGACGGTCAAGATTGCGAAGGTAAACATGTCGTGTCACAGACAGCTCTGCCAG 1311
Db 1414 AAGAGACGGTCAAGATTGCGAAGGTAAACATGTCGTGTCACAGACAGCTCTGCCAG 1473
Qy 1312 GCTCTGTGA 1320
Db 1474 GCTCTGTGA 1482

RESULT 9
US-10-208-408-52
; Sequence 52, Application US/10208408
; Publication No. US20030096272A1
; GENERAL INFORMATION:
; APPLICANT: Scheye, Xiao Min
; TITLE OF INVENTION: GENES REGULATED BY PEROXISOME PROLIFERATOR-ACTIVATED RECEPTOR
; FILE REFERENCE: PA-0048-1 US
; CURRENT APPLICATION NUMBER: US/10/208,408
; CURRENT FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: 60/308,868
; PRIOR FILING DATE: 2001-07-30
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PERL Program
; SEQ ID NO 52
; LENGTH: 5653
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030096272A1 1383759.1
US-10-208-408-52

Query Match 95.3%; Score 1257.8; DB 6; Length 5653;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1862; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 52 ACTGACCTCTGAGAGTCCCTTCAAGAGAGATGACGCGGAGAGAACCCCGAGCTA 111
Db 260 ACTTCTTTAGGAGAGTCCCTTCAAGAGAGATGACGCGGAGAGAACCCCGAGCTA 319
Qy 112 GTCCGACAGACAGGTGAACATTACAGATTTTACAAAGTCTCTGTCCTTCAAG 171

Db 320 GTCCGACAGACAGGTGAACATTACAGATTTTACAAAGTCTCTGTCCTTCAAG 379
Qy 172 GAGATGAGAGAGATCATCAGTGTGGGAGAGACTTCAATGACATAGAGTGTTCATGATC 231
Db 380 GAGATGAGAGAGATCATCAGTGTGGGAGAGACTTCAATGACATAGAGTGTTCATGATC 439
Qy 232 CTGAACCCAGACAGAGCTGGCATTCAGTCTGTCCTTCAAGTGTGGAGCACTTCAAG 291
Db 440 CTGAACCCAGACAGAGCTGGCATTCAGTCTGTCCTTCAAGTGTGGAGCACTTCAAG 499
Qy 292 GTCTGAGAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 351
Db 500 GTCTGAGAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 559
Qy 352 CTTTCTTACCACTTCAATGAGAGCTGGCGGTGGAGAGCTCTGAGGAGTGTATTTT 411
Db 560 CTTTCTTACCACTTCAATGAGAGCTGGCGGTGGAGAGCTCTGAGGAGTGTATTTT 619
Qy 412 GTTACAGCTTCAATGACATTCACAGTGTTCACAGCGCAAGATAGCCGCAAGTGTTCG 471
Db 620 GTTACAGCTTCAATGACATTCACAGTGTTCACAGCGCAAGATAGCCGCAAGTGTTCG 679
Qy 472 TTCAAACTGGGTGGGTCAAGGCTCTTCACTGCTCTGCTGCTGCTGCTGCTGCTGCT 531
Db 680 TTCAAACTGGGTGGGTCAAGGCTCTTCACTGCTCTGCTGCTGCTGCTGCTGCTGCT 739
Qy 532 GCAATCGACAGGTATCATTCATTCACAGGCGCCGCTTAAAGAGATTTGTCACAGG 591
Db 740 GCAATCGACAGGTATCATTCATTCACAGGCGCCGCTTAAAGAGATTTGTCACAGG 799
Qy 592 CCAAGGCGGTGTGAGCTGTTTGTGCTGATGAGCAATGCAATGATGACCGGTGCTG 651
Db 800 CCAAGGCGGTGTGAGCTGTTTGTGCTGATGAGCAATGCAATGATGACCGGTGCTG 859
Qy 652 CTTCTCTGCGCTGGAATCTGGAAGAACTGCAATCTGTTTCTGACAGATTTTCCACAC 711
Db 860 CTTCTCTGCGCTGGAATCTGGAAGAACTGCAATCTGTTTCTGACAGATTTTCCACAC 919
Qy 712 ATGATGAAACCTGACCTGATGTTCTGAGATGGGGGTACACAGGATAGCTTCTGTTATC 771
Db 920 ATGATGAAACCTGACCTGATGTTCTGAGATGGGGGTACACAGGATAGCTTCTGTTATC 979
Qy 772 GTGATGCGTACATGATATTTCTGGAAGGCTCAAGCCAGCGCTCCGATGATTCAG 831
Db 980 GTGATGCGTACATGATATTTCTGGAAGGCTCAAGCCAGCGCTCCGATGATTCAG 1039
Qy 832 CGTGCAACCCAGAAAGCATCATCAACAGCTCTGAGATGGAGATGGAGGTACAGGTGAC 891
Db 1040 CGTGCAACCCAGAAAGCATCATCAACAGCTCTGAGATGGAGATGGAGGTACAGGTGAC 1099
Qy 892 CGGCGACAGCAAGCCCGCATGAGCATTAAGGTTAGCCAGAACCTGTGCTGATCCGTGAG 951
Db 1100 CGGCGACAGCAAGCCCGCATGAGCATTAAGGTTAGCCAGAACCTGTGCTGATCCGTGAG 1159
Qy 952 GTGTGATCATCTGCTGAGGAGCCCTCTGCTTCAATCATGTTGATGATGATCTTTGGAG 1011
Db 1160 GTGTGATCATCTGCTGAGGAGCCCTCTGCTTCAATCATGTTGATGATGATCTTTGGAG 1219
Qy 1012 ATGAACAAGCTATTAAAGCGGTGTTGATCTGCAATGATGCTGCTGCTGCAACTCC 1071
Db 1220 ATGAACAAGCTATTAAAGCGGTGTTGATCTGCAATGATGCTGCTGCTGCAACTCC 1279
Qy 1072 ACCGTAACCCCATCATATGCTCTGAGAGGATTAAGAGCATGCGACAGCTTTCCGAGC 1131
Db 1280 ACCGTAACCCCATCATATGCTCTGAGAGGATTAAGAGCATGCGACAGCTTTCCGAGC 1339
Qy 1132 ATGTTCCCTCTTGTGAAGGCACTGCGACGCTCTGATTAACAGCATGGGAGACTCGAC 1191
Db 1340 ATGTTCCCTCTTGTGAAGGCACTGCGACGCTCTGATTAACAGCATGGGAGACTCGAC 1399
Qy 1192 TGCCTGCAAAACGCAAAACATGACGCAAGTGTTCACAGGCGCGAGAAAGCTGCAATC 1251
Db 1400 TGCCTGCAAAACGCAAAACATGACGCAAGTGTTCACAGGCGCGAGAAAGCTGCAATC 1459


```
QY 1252 AAGAGCAGGTCAAGATGCGAAGGTACATGTCGTGTCACAGACAAGTCTGGCGAG 1311
|
|
|
Db 1460 AAGAGCAGGTCAAGATGCGAAGGTACATGTCGTGTCACAGACAAGTCTGGCGAG 1519
|
|
|
QY 1312 GCTCTGTGA 1320
|
|
|
Db 1520 GCTCTGTGA 1528

RESULT 10
US-10-521-420-2
; Sequence 2, Application US/10521420
; Publication No. US20050239133A1
; GENERAL INFORMATION:
; APPLICANT: Greasley, Peter
; TITLE OF INVENTION: Methods to Identify True Antagonists and Inverse Agonists of the
; FILE REFERENCE: AS2D-P01-752
; CURRENT APPLICATION NUMBER: US/10/521,420
; PRIOR FILING DATE: 2005-01-14
; PRIOR APPLICATION NUMBER: SE 0202242-4
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1419
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-521-420-2

Query Match 95.2%; Score 1256.2; DB 10; Length 1419;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1261; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 52 ACTGACCTCTGGAAGTCCCTTCCAGAGATGACTGCGGAGACAACCCGAGCTA 111
|
|
|
Db 151 ACTCTTTAGGGGAAGTCCCTTCCAGAGATGACTGCGGAGACAACCCGAGCTA 210
|
|
|
QY 112 GTCCGACGACGACGAGTGAACATTACAGATTTTACACAAAGTCTCTGCTCTTCAAG 171
|
|
|
Db 211 GTCCGACGACGACGAGTGAACATTACAGATTTTACACAAAGTCTCTGCTCTTCAAG 270
|
|
|
QY 172 GAGAAATGAGGAGAACATCAAGTGGGGGAGACTTCATGAGATAGAGTTTCAATGATC 231
|
|
|
Db 271 GAGAAATGAGGAGAACATCAAGTGGGGGAGACTTCATGAGATAGAGTTTCAATGATC 330
|
|
|
QY 232 CTGAACCCGACGACGAGCTGGCCATGAGTCTGCTCCCTCAAGCTGGGCACTTTCAAG 291
|
|
|
Db 331 CTGAACCCGACGACGAGCTGGCCATGAGTCTGCTCCCTCAAGCTGGGCACTTTCAAG 390
|
|
|
QY 292 GTCTGAGGAACCTCTGTGTGTGTGCGTCACTCTCCGACGCTCCGCTGACAG 351
|
|
|
Db 391 GTCTGAGGAACCTCTGTGTGTGTGCGTCACTCTCCGACGCTCCGCTGACAG 450
|
|
|
QY 352 CCTTCCTCACTTATGAGGAGCTGTGGGAGAGACCTCCCTGGGAGAGTCAATTTT 411
|
|
|
Db 451 CCTTCCTCACTTATGAGGAGCTGTGGGAGAGACCTCCCTGGGAGAGTCAATTTT 510
|
|
|
QY 412 GTCTACAGCTTATGACTTCCACGCTGTTCACACCGCAAGATAGCGCAAGCTGTTCTG 471
|
|
|
Db 511 GTCTACAGCTTATGACTTCCACGCTGTTCACACCGCAAGATAGCGCAAGCTGTTCTG 570
|
|
|
QY 472 TTCAAACTGGGTGGGTCAAGCGCTCTTCACTGCTCCGTGGGAGCGCTGTTCTTCA 531
|
|
|
Db 571 TTCAAACTGGGTGGGTCAAGCGCTCTTCACTGCTCCGTGGGAGCGCTGTTCTTCA 630
|
|
|
QY 532 GCATCGACAGGTACATATTCATTCATTCACAGGCCCCGCGCTTAAGAGATGTGACCGCAG 591
|
|
|
Db 631 GCATCGACAGGTACATATTCATTCATTCACAGGCCCCGCGCTTAAGAGATGTGACCGCAG 690
|
|
|
QY 592 CCCAAGGCGGTGTGACGTTTGGCTGTGATGTGACCATATGACCATGTCGCGTGTG 651
|
|
|
```

```
Db 691 CCCAAGGCGGTGTGACGTTTGGCTGTGATGTGACCATATGACCATGTTGATGCGCGTGTG 750
|
|
|
QY 652 CCTTCCTGGGTGGGAGACTGCGAGAACTGCAATCTGTTTGTCTCAGACATTTTCCACAG 711
|
|
|
Db 751 CCTTCCTGGGTGGGAGACTGCGAGAACTGCAATCTGTTTGTCTCAGACATTTTCCACAG 810
|
|
|
QY 712 ATTGAAGAACTACCTGATGTGTCGAGTGGGGGACACAGGCTACTGTTCTGTTCAATC 771
|
|
|
Db 811 ATTGAAGAACTACCTGATGTGTCGAGTGGGGGACACAGGCTACTGTTCTGTTCAATC 870
|
|
|
QY 772 GTGATGGTACATGATATATCTCTGGAAGGCTCAAGCAGCCGTCGCAATGATTGAG 831
|
|
|
Db 871 GTGATGGTACATGATATATCTCTGGAAGGCTCAAGCAGCCGTCGCAATGATTGAG 930
|
|
|
QY 832 CTTGACACCCAGAGAGCATCATATCAACAGTCTGAGATGGGAGGTACAGGTGACC 891
|
|
|
Db 931 CTTGACACCCAGAGAGCATCATATCAACAGTCTGAGATGGGAGGTACAGGTGACC 990
|
|
|
QY 892 CGGCGACGACCAAGCCCGATGAGCATATGATTAGCCAGACCCCTGATCTGATCTGTTG 951
|
|
|
Db 991 CGGCGACGACCAAGCCCGATGAGCATATGATTAGCCAGACCCCTGATCTGATCTGTTG 1050
|
|
|
QY 952 GTGATGATCATCTGCTGGGCGCTCTGCTTCAATCATGATGATGATGATGATGATG 1011
|
|
|
Db 1051 GTGATGATCATCTGCTGGGCGCTCTGCTTCAATCATGATGATGATGATGATGATG 1110
|
|
|
QY 1012 ATGAACAGCTCATTAAGACGATGTTGCAATTTGCAAGATGATGATGATGATGATG 1071
|
|
|
Db 1111 ATGAACAGCTCATTAAGACGATGTTGCAATTTGCAAGATGATGATGATGATGATG 1170
|
|
|
QY 1072 ACCGTAACCCCATCATATATGCTCTGAGAGTAAAGACCTGCGACAGCTTCCGAGAC 1131
|
|
|
Db 1171 ACCGTAACCCCATCATATATGCTCTGAGAGTAAAGACCTGCGACAGCTTCCGAGAC 1230
|
|
|
QY 1132 ATGTTCCCTCTTGTGAAGCACTGCGAGCTCTGATTAACAGCATGGGAGACTCGAGC 1191
|
|
|
Db 1231 ATGTTCCCTCTTGTGAAGCACTGCGAGCTCTGATTAACAGCATGGGAGACTCGAGC 1290
|
|
|
QY 1192 TGCCGCAACAAACGCAACATATGACCAAGTGTTCACAGGCGCGCAAAAGCTGCATC 1251
|
|
|
Db 1291 TGCCGCAACAAACGCAACATATGACCAAGTGTTCACAGGCGCGCAAAAGCTGCATC 1350
|
|
|
QY 1252 AAGAGCAGGTCAAGATGCGAAGGTACATGTCGTGTCACAGACAAGTCTGGCGAG 1311
|
|
|
Db 1351 AAGAGCAGGTCAAGATGCGAAGGTACATGTCGTGTCACAGACAAGTCTGGCGAG 1410
|
|
|
QY 1312 GCTCTGTGA 1320
|
|
|
Db 1411 GCTCTGTGA 1419

RESULT 11
US-10-521-420-3
; Sequence 3, Application US/10521420
; Publication No. US20050239133A1
; GENERAL INFORMATION:
; APPLICANT: Greasley, Peter
; TITLE OF INVENTION: Methods to Identify True Antagonists and Inverse Agonists of the
; FILE REFERENCE: AS2D-P01-752
; CURRENT APPLICATION NUMBER: US/10/521,420
; PRIOR FILING DATE: 2005-01-14
; PRIOR APPLICATION NUMBER: SE 0202242-4
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1419
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-521-420-3

Query Match 95.2%; Score 1256.2; DB 10; Length 1419;
```

Best Local Similarity 99.4%; Pred. No. 0;
Matches 1261; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

```
OY 52 ACTGACCTCTGGGAAGTCCCTTCCAGAGAAAGATGATCGCGGAGACACCCCGAGCTA 111
Db 151 ACTTCCTTAGGGGAAGTCCCTTCCAGAGAAAGATGATCGCGGAGACACCCCGAGCTA 210
OY 112 GTCCAGAGACAGAGTGAACATTAAGAAATTTTCAACAATCTCTCGTCCCTTCAAG 171
Db 211 GTCCAGAGACAGAGTGAACATTAAGAAATTTTCAACAATCTCTCGTCCCTTCAAG 270
OY 172 GAGAAATGAGAGAAATCATCAGTGTGGGAGAACTTCAATGACATAGAGTGTTCATGTC 231
Db 271 GAGAAATGAGAGAAATCATCAGTGTGGGAGAACTTCAATGACATAGAGTGTTCATGTC 330
OY 232 CTGAACCCCGACAGACAGTGGCCATTTGCAATCTCTGCTCCCTCAAGCTGGGACCTTCAAG 291
Db 331 CTGAACCCCGACAGACAGTGGCCATTTGCAATCTCTGCTCCCTCAAGCTGGGACCTTCAAG 390
OY 292 GTCCAGAGAACTCTGGTGTGGTGCATCTCCACTCCGAGAGCTCCGCTGCAAG 351
Db 391 GTCCAGAGAACTCTGGTGTGGTGCATCTCCACTCCGAGAGCTCCGCTGCAAG 450
OY 352 CTTTCTTCACTCATCTGCGAGCCCTGGCGGTGGAGACCTTCGAGAGTGTCAATTTT 411
Db 451 CTTTCTTCACTCATCTGCGAGCCCTGGCGGTGGAGACCTTCGAGAGTGTCAATTTT 510
OY 412 GTCTACAGCTTATTTGATCTTCCAGTGTTCACCCGAAAGATAGCCCGACCTGTTCTG 471
Db 511 GTCTACAGCTTATTTGATCTTCCAGTGTTCACCCGAAAGATAGCCCGACCTGTTCTG 570
OY 472 TTCAAACTGGGTGGGTGACGGGCTCTTCACTGCTCCGTTGGGAGAGCTGTTCCTCA 531
Db 571 TTCAAACTGGGTGGGTGACGGGCTCTTCACTGCTCCGTTGGGAGAGCTGTTCCTCA 630
OY 532 GGCATGACAGGTACATATCCATTCACAGGCCCTGGCCCTATTAAGAGATTTGTCAAG 591
Db 631 GGCATGACAGGTACATATCCATTCACAGGCCCTGGCCCTATTAAGAGATTTGTCAAG 690
OY 592 CCCAAGGCGGTGTAGCGTTTGGCTGTGATGTGACCATATGCAATTTGATGCGGTGTC 651
Db 691 CCCAAGGCGGTGTAGCGTTTGGCTGTGATGTGACCATATGCAATTTGATGCGGTGTC 750
OY 652 CCTCTCTGGGCTGGAAGTGGAGAACTGCAATCTGTTGCTGACGACATTTTCCACAG 711
Db 751 CCTCTCTGGGCTGGAAGTGGAGAACTGCAATCTGTTGCTGACGACATTTTCCACAG 810
OY 712 ATTGATGAACCTTACCTGATGTGTTGGAATCGGGGTCAACGAGCTACTGTTCAATC 771
Db 811 ATTGATGAACCTTACCTGATGTGTTGGAATCGGGGTCAACGAGTACTGTTCAATC 870
OY 772 GTGTATGGGTACATGTATATTCTTGGAAGGCTCACAGCAGCCCTCCGATGATTAAG 831
Db 871 GTGTATGGGTACATGTATATTCTTGGAAGGCTCACAGCAGCCCTCCGATGATTAAG 930
OY 832 CGTGGACCCAGAGAGCATCATCACTCAAGTCTGAGAGTGGAGATGAGGATCAAGGTACC 891
Db 931 CGTGGACCCAGAGAGCATCATCACTCAAGTCTGAGAGTGGAGATGAGGATCAAGGTACC 990
OY 892 CGGCGACAGCAAGCCCGCATGACATTAAGTTAGCCAAAGACCTGGTCTGATCTGTC 951
Db 991 CGGCGACAGCAAGCCCGCATGACATTAAGTTAGCCAAAGACCTGGTCTGATCTGTC 1050
OY 952 GTGTGATCATCTGCTGGGGCCCTGCTGCTTGCAATCATATGTGTATGTCTTTGGAG 1011
Db 1051 GTGTGATCATCTGCTGGGGCCCTGCTGCTTGCAATCATATGTGTATGTCTTTGGAG 1110
OY 1012 ATGAACAAGCTCATTAAGAAGGTTTGAATCTGAGAGTATGCTGCGCTGGAATCC 1071
Db 1111 ATGAACAAGCTCATTAAGAAGGTTTGAATCTGAGAGTATGCTGCGCTGGAATCC 1170
OY 1072 ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAAGACCTGCAACGCTTTCGGAGC 1131
```

```
Db 1171 ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAAGACCTGCAACGCTTTCGGAGC 1230
OY 1132 ATGTTCCCTTGTGGAAGGACATGCGAGCTCTGATTAACAACATGGGGGACTCGGAC 1191
Db 1231 ATGTTCCCTTGTGGAAGGACATGCGAGCTCTGATTAACAACATGGGGGACTCGGAC 1290
OY 1192 TGCCGTGCAAAACAGCAAAACAATATGACAGCCAGTGTTCACAGGGCGGAGAAAGCTGATC 1251
Db 1291 TGCCGTGCAAAACAGCAAAACAATATGACAGCCAGTGTTCACAGGGCGGAGAAAGCTGATC 1350
OY 1252 AAGACACGTCAGATTTCCAGAGTAAACATGTCGTGTCTGTCACAGACAGCTTCGCGAG 1311
Db 1351 AAGACACGTCAGATTTCCAGAGTAAACATGTCGTGTCTGTCACAGACAGCTTCGCGAG 1410
OY 1312 GCTCTGTA 1320
Db 1411 GCTCTGTA 1419
```

RESULT 12

US-10-101-510-715
; Sequence 715, Application US/10101510
; Publication No. US20030148295A1
; GENERAL INFORMATION:
; APPLICANT: WAN, JACKSON
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
; FILE REFERENCE: 15117.0012
; CURRENT APPLICATION NUMBER: US/10/101.510
; CURRENT FILING DATE: 2002-03-20
; PRIOR APPLICATION NUMBER: 60/276,947
; PRIOR FILING DATE: 2001-03-20
; NUMBER OF SEQ ID NOS: 805
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 715
; LENGTH: 2135
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-101-510-715

Query Match 95.2%; Score 1256.2; DB 7; Length 2135;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1261; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

```
OY 52 ACTGACCTCTGGGAAGTCCCTTCCAGAGAAAGATGATCGCGGAGACACCCCGAGCTA 111
Db 242 ACTTCCTTAGGGGAAGTCCCTTCCAGAGAAAGATGATCGCGGAGACACCCCGAGCTA 301
OY 112 GTCCAGAGACAGAGTGAACATTAAGAAATTTTCAACAATCTCTCGTCCCTTCAAG 171
Db 302 GTCCAGAGACAGAGTGAACATTAAGAAATTTTCAACAATCTCTCGTCCCTTCAAG 361
OY 172 GAGAAATGAGAGAAATCATCAGTGTGGGAGAACTTCAATGACATAGAGTGTTCATGTC 231
Db 362 GAGAAATGAGAGAAATCATCAGTGTGGGAGAACTTCAATGACATAGAGTGTTCATGTC 421
OY 232 CTGAACCCCGACAGACAGTGGCCATTTGCAATCTCTGCTCCCTCAAGCTGGGACCTTCAAG 291
Db 422 CTGAACCCCGACAGACAGTGGCCATTTGCAATCTCTGCTCCCTCAAGCTGGGACCTTCAAG 481
OY 292 GTCCAGAGAACTCTGGTGTGGTGCATCTCCACTCCGAGAGCTCCGCTGCAAG 351
Db 482 GTCCAGAGAACTCTGGTGTGGTGCATCTCCACTCCGAGAGCTCCGCTGCAAG 541
OY 352 CTTTCTTCACTCATCTGCGAGCCCTGGCGGTGGAGACCTTCGAGAGTGTCAATTTT 411
Db 542 CTTTCTTCACTCATCTGCGAGCCCTGGCGGTGGAGACCTTCGAGAGTGTCAATTTT 601
OY 412 GTCTACAGCTTATTTGATCTTCCAGTGTTCACCCGAAAGATAGCCCGACCTGTTCTG 471
Db 602 GTCTACAGCTTATTTGATCTTCCAGTGTTCACCCGAAAGATAGCCCGACCTGTTCTG 661
OY 472 TTCAAACTGGGTGGGTGACGGGCTCTTCACTGCTCCGTTGGGAGAGCTGTTCCTCA 531
```

```

Db      662 TTCAAACTGGGGGTGCAAGGCTCTTCACTGCTCCGGGGAGGCTGTTCTCAACA 721
Qy      532 GCCATCGACAGGTAATATTCATTCACAGGCCCTGCTATPAAGAAATGTCAACAG 591
Db      722 GCCATCGACAGGTAATATTCATTCACAGGCCCTGCTATPAAGAAATGTCAACAG 781
Qy      592 CCCAAGGCGGTGAGCGTTTGGCCGATGAGTGAACATAGCCATTGTATCCCGGTG 651
Db      782 CCCAAGGCGGTGAGCGTTTGGCCGATGAGTGAACATAGCCATTGTATCCCGGTG 841
Qy      652 CCTCTCTGGGCTGGAAGTGCAGAAATGCAATCTGTTGCTCAGACATTTTCCACAC 711
Db      842 CCTCTCTGGGCTGGAAGTGCAGAAATGCAATCTGTTGCTCAGACATTTTCCACAC 901
Qy      712 ATTGATGAACCTACCTGATGTTCTGAGATCGGGGTCAACAAGGTAATCTGTTCA 771
Db      902 ATTGATGAACCTACCTGATGTTCTGAGATCGGGGTCAACAAGGTAATCTGTTCA 961
Qy      772 GTGATGCGTACATGATATTTCTGGAAGGCTACAGCAGCCGCTCCGATGATCAG 831
Db      962 GTGATGCGTACATGATATTTCTGGAAGGCTACAGCAGCCGCTCCGATGATCAG 1021
Qy      832 CGTGGCAACCAGAAAGATCATCATCAACGTCGAGATGGAAAGGTACAGGTGACC 891
Db      1022 CGTGGCAACCAGAAAGATCATCATCAACGTCGAGATGGAAAGGTACAGGTGACC 1081
Qy      892 CGGCGCAACCAAGCCCGCATGAGCAATTAGGTTAGCCAGACCTGCTGTATCCTG 951
Db      1082 CGGCGCAACCAAGCCCGCATGAGCAATTAGGTTAGCCAGACCTGCTGTATCCTG 1141
Qy      952 GTGTGATCATGTCGCGGGGCGCTGCTGCTGGAATCAATGATGATGATGATGATG 1011
Db      1142 GTGTGATCATGTCGCGGGGCGCTGCTGCTGGAATCAATGATGATGATGATGATG 1201
Qy      1012 ATGAACAAGCTATTAAAGAGGTGTTGCAATTCGAGATGATCTGCTGCTGAATCC 1071
Db      1202 ATGAACAAGCTATTAAAGAGGTGTTGCAATTCGAGATGATCTGCTGCTGAATCC 1261
Qy      1072 ACCGTGAACCCCATCATATGCTGCTGAGAGATGAAGACCTGCGACACGCTTCC 1131
Db      1262 ACCGTGAACCCCATCATATGCTGCTGAGAGATGAAGACCTGCGACACGCTTCC 1321
Qy      1132 ATGTTCCCTCTTGGAAGGCACTGCGACCTCTGGAATACAGATGGGGGACTCGAC 1191
Db      1322 ATGTTCCCTCTTGGAAGGCACTGCGACCTCTGGAATACAGATGGGGGACTCGAC 1381
Qy      1192 TGCCCTGCAAAACAGCAAAACATGCAAGCAGGTGTTCAAGGGCCGAGAAAGCTG 1251
Db      1382 TGCCCTGCAAAACAGCAAAACATGCAAGCAGGTGTTCAAGGGCCGAGAAAGCTG 1441
Qy      1252 AAGAGCAGGTCAAGATGTCGAAGGTAAACATGTCGTGTCTCAAGACAGCTCTG 1311
Db      1442 AAGAGCAGGTCAAGATGTCGAAGGTAAACATGTCGTGTCTCAAGACAGCTCTG 1501
Qy      1312 GCTCTGTGA 1320
Db      1502 GCTCTGTGA 1510

```

RESULT 13

```

US-10-305-720-1450
; Sequence 1450, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; PRIORITY FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIORITY FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490

```

```

; SOFTWARE: PERL Program
; SEQ ID NO 1450
; LENGTH: 2135
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: GenBank ID No. US20040010136A1 g736236
US-10-305-720-1450

Query Match      95.2%; Score 1256.2; DB 7; Length 2135;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1261; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy      52 ACTGACCTCTGGGAAGTCCCTTCCAGAGAAAGATGACTGGGGAGACACCACGCTA 111
Db      242 ACTTCCTTAGGGGAAGTCCCTTCCAGAGAAAGATGACTGGGGAGACACCACGCTA 301
Qy      112 GTCCGAGAGACAGAGTAACATTCAGAAATTTTCAACAAGTCTCTCGCTCCCTCAAG 171
Db      302 GTCCGAGAGACAGAGTAACATTCAGAAATTTTCAACAAGTCTCTCGCTCCCTCAAG 361
Qy      172 GAGAAATGAGAGAAATCATCATGATGGGAGAACTTCATGACATAGAGTTCATGATC 231
Db      362 GAGAAATGAGAGAAATCATCATGATGGGAGAACTTCATGACATAGAGTTCATGATC 421
Qy      232 CTGAACCCGACAGACCTGAGCATTTGAGTCTGCTCTCAACGCTGAGGACCTTCAAG 291
Db      422 CTGAACCCGACAGACCTGAGCATTTGAGTCTGCTCTCAACGCTGAGGACCTTCAAG 481
Qy      422 CTGAACCCGACAGACCTGAGCATTTGAGTCTGCTCTCAACGCTGAGGACCTTCAAG 481
Db      232 GTCCGAGAGACAGAGTAACATTCAGAAATTTTCAACAAGTCTCTCGCTCCCTCAAG 351
Qy      482 GTCCGAGAGACAGAGTAACATTCAGAAATTTTCAACAAGTCTCTCGCTCCCTCAAG 541
Db      352 CTTCTCTCAACCTTCATCATGAGAGCTGAGGAGTGAAGCTCTCTGAGAGTGTCAATTTT 411
Qy      542 CTTCTCTCAACCTTCATCATGAGAGCTGAGGAGTGAAGCTCTCTGAGAGTGTCAATTTT 601
Db      412 GTCTAGAGCTTCATGATCTTCAAGCTGTTTCAACGCGAAAGATAGCGGAGTGTCTG 471
Qy      602 GTCTAGAGCTTCATGATCTTCAAGCTGTTTCAACGCGAAAGATAGCGGAGTGTCTG 661
Db      472 TTCAAACTGGGGGTGCAAGGCTCTTCACTGCTCCGAGGAGGCTGTTCTCTCA 531
Qy      662 TTCAAACTGGGGGTGCAAGGCTCTTCACTGCTCCGAGGAGGCTGTTCTCTCA 721
Db      532 GCCATCGACAGGTAATATTCATTCACAGGCCCTGCTATPAAGAAATGTCAACAG 591
Qy      722 GCCATCGACAGGTAATATTCATTCACAGGCCCTGCTATPAAGAAATGTCAACAG 781
Db      592 CCCAAGGCGGTGAGCGTTTGGCCGATGAGTGAACATAGCCATTGTATCCCGGTG 651
Qy      782 CCCAAGGCGGTGAGCGTTTGGCCGATGAGTGAACATAGCCATTGTATCCCGGTG 841
Db      652 CCTCTCTGGGCTGGAAGTGCAGAAATGCAATCTGTTGCTCAGACATTTTCCACAC 711
Qy      842 CCTCTCTGGGCTGGAAGTGCAGAAATGCAATCTGTTGCTCAGACATTTTCCACAC 901
Db      712 ATTGATGAACCTACCTGATGTTCTGAGATCGGGGTCAACAAGGTAATCTGTTCA 771
Qy      902 ATTGATGAACCTACCTGATGTTCTGAGATCGGGGTCAACAAGGTAATCTGTTCA 961
Db      772 GTGATGCGTACATGATATTTCTGGAAGGCTACAGCAGCCGCTCCGATGATCAG 831
Qy      962 GTGATGCGTACATGATATTTCTGGAAGGCTACAGCAGCCGCTCCGATGATCAG 1021
Db      832 CGTGGCAACCAGAAAGATCATCATCAACGTCGAGATGGAAAGGTACAGGTGACC 891
Qy      1022 CGTGGCAACCAGAAAGATCATCATCAACGTCGAGATGGAAAGGTACAGGTGACC 1081
Db      892 CGGCGCAACCAAGCCCGCATGAGCAATTAGGTTAGCCAGACCTGCTGTATCCTG 951
Qy      1082 CGGCGCAACCAAGCCCGCATGAGCAATTAGGTTAGCCAGACCTGCTGTATCCTG 1141

```

QY 952 GTGTGATCATCTGCTGGGCCCCCTGCTTGCAATCATGTGTATGATGTCTTTGGAG 1011
Db 1142 GTGTGATCATCTGCTGGGCCCCCTGCTTGCAATCATGTGTATGATGTCTTTGGAG 1201
QY 1012 ATGAACAAGCTCATTAAGACGGTGTTCATCTGCAGATGCTCTGCTGCTGAATCC 1071
Db 1202 ATGAACAAGCTCATTAAGACGGTGTTCATCTGCAGATGCTCTGCTGCTGAATCC 1261
QY 1072 ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAGACCTGCGACACGCTTTCCGAGC 1131
Db 1262 ACCGTGAACCCCATCATCTATGCTCTGAGAGTAAGACCTGCGACACGCTTTCCGAGC 1321
QY 1132 ATGTTCCCTCTTGGAAGGCACTGCGACCTCTGGAATACAGATAGGGGACCTCGAC 1191
Db 1322 ATGTTCCCTCTTGGAAGGCACTGCGACCTCTGGAATACAGATAGGGGACCTCGAC 1381
QY 1192 TGCCCTGCAAAACAGCAACATGCAAGCTGTTCAAGGGCCGCAAAAGCTGCATC 1251
Db 1382 TGCCCTGCAAAACAGCAACATGCAAGCTGTTCAAGGGCCGCAAAAGCTGCATC 1441
QY 1252 AAGACGAGTCAAGATTGCCAAGTAAACATGTCTGTCTCAAGACAGTCTGCCAG 1311
Db 1442 AAGACGAGTCAAGATTGCCAAGTAAACATGTCTGTCTCAAGACAGTCTGCCAG 1501
QY 1312 GCTCTGTGA 1320
Db 1502 GCTCTGTGA 1510

RESULT 14
US-10-641-643-1469

; Sequence 1469, Application US/10641643
; Publication No. US2004007003A1
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; Susan G. Stuart
; Jeffrey J. Selhammer

TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL
GENE EXPRESSION
NUMBER OF SEQUENCES: 1508
CORRESPONDENCE ADDRESS:
ADDRESS: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 PORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/641,643
FILING DATE: 14-Aug-2003
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: <Unknown>
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0001 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 1469:
SEQUENCE CHARACTERISTICS:
LENGTH: 2135 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: GENBANK
CLONE: 9736236

SEQUENCE DESCRIPTION: SEQ ID NO: 1469 :

Query Match 95.2%; Score 1256.2; DB 8; Length 2135;

Best Local Similarity 99.4%; Pred. No. 0; Mismatches 8; Indels 0; Gaps 0;

Matches 1261; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 52 ACTGACCTCTGGGAGTCCCTTCAAGAGAGTGA CTGGGAGACAACCCCACTA 111
Db 242 ACTTCTTAGGGGAGGTCCTTCAAGAGAGTGA CTGGGAGACAACCCCACTA 301
QY 112 GTCCCAAGACCAAGTGAACATTAAGATTTTACAAGTCTCTGCTGCTCAAG 171
Db 302 GTCCCAAGACCAAGTGAACATTAAGATTTTACAAGTCTCTGCTGCTCAAG 361
QY 172 GAGATGAGAGAACATTCAGTGTGGGAGAACCTTCAATGACATAGAGTGTTCATGATC 231
Db 362 GAGATGAGAGAACATTCAGTGTGGGAGAACCTTCAATGACATAGAGTGTTCATGATC 421
QY 232 CTGAACCCCAAGCAGCAGCTGGCCATTCAGTCTGCTTCCATCAGCTGGGCACTTACG 291
Db 422 CTGAACCCCAAGCAGCAGCTGGCCATTCAGTCTGCTTCCATCAGCTGGGCACTTACG 481
QY 292 GTCCCTGAGAACCTCTGCTGCTGCTGCTCACTCTCCAGACGCTCCGCTGGCAGG 351
Db 482 GTCCCTGAGAACCTCTGCTGCTGCTGCTCACTCTCCAGACGCTCCGCTGGCAGG 541
QY 352 CTTCTTACACACTTCATTCAGCAGCTGGCCGCTGGCAGACCTCTCGGGAGTGTATTTT 411
Db 542 CTTCTTACACACTTCATTCAGCAGCTGGCCGCTGGCAGACCTCTCGGGAGTGTATTTT 601
QY 412 GTTACAGCTTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTC 471
Db 602 GTTACAGCTTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTC 661
QY 472 TTCAAACTGGGTGGGTGTCAGGCTCTCTCACTGCTCCGCTGGGCAAGCTGTTCTACA 531
Db 662 TTCAAACTGGGTGGGTGTCAGGCTCTCTCACTGCTCCGCTGGGCAAGCTGTTCTACA 721
QY 532 GCCATTCAGAGTACATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTC 591
Db 722 GCCATTCAGAGTACATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTC 781
QY 592 CCCAAGGCGGTGTAGCGTTTGTCTGATGTGAACATAGCCATTTGATGCGGTGTG 651
Db 782 CCCAAGGCGGTGTAGCGTTTGTCTGATGTGAACATAGCCATTTGATGCGGTGTG 841
QY 652 CCTCTCTGGGCTGGAACCTGGAAGAACTGCAATCTGTTGCTGACATTTTCCACAC 711
Db 842 CCTCTCTGGGCTGGAACCTGGAAGAACTGCAATCTGTTGCTGACATTTTCCACAC 901
QY 712 ATTGATGAACCTTACCTGATGTTCTGATCGGGGTCAACAGCTACTGCTTCTGTTATC 771
Db 902 ATTGATGAACCTTACCTGATGTTCTGATCGGGGTCAACAGCTACTGCTTCTGTTATC 961
QY 772 GTGTATGCTTACATGATATTTCTGGAAGGCTCAACAGCCGCTCCGATGATTCAG 831
Db 962 GTGTATGCTTACATGATATTTCTGGAAGGCTCAACAGCCGCTCCGATGATTCAG 1021
QY 832 CGTGGACCCGGAAGAGCATCATCCACAGCTGAGATGGAAGTGAAGTACAGTAC 891
Db 1022 CGTGGACCCGGAAGAGCATCATCCACAGCTGAGATGGAAGTGAAGTACAGTAC 1081
QY 892 CGGCGACCAAGCCCGCATGAGCATTAAGTTAGCAAGACCTGTCTGATCTGTGTG 951
Db 1082 CGGCGACCAAGCCCGCATGAGCATTAAGTTAGCAAGACCTGTCTGATCTGTGTG 1141
QY 952 GTGTGATCATCTGCTGGGCCCCCTGCTTGCAATCATGTGTATGATGTCTTTGGAG 1011
Db 1142 GTGTGATCATCTGCTGGGCCCCCTGCTTGCAATCATGTGTATGATGTCTTTGGAG 1201

QY 1012 ATGAACAAGCTCATTAAGACGGTGTGCAATTCGAGATATGCTTGCCTGCTGAATCC 1071
|
DB 1202 ATGAACAAGCTCATTAAGACGGTGTGCAATTCGAGATATGCTTGCCTGCTGAATCC 1261
QY 1072 ACCGTAAACCCATCATATGCTCTGAGAGTAAGAACTTGGAGACGCTTCCGAGC 1131
|
DB 1262 ACCGTAAACCCATCATATGCTCTGAGAGTAAGAACTTGGAGACGCTTCCGAGC 1321
QY 1132 ATGTTTCCCTCTTGTGAAGGCACTGGCAGCTCTGAGTAAACGATGAGGAGATCGGAC 1191
|
DB 1322 ATGTTTCCCTCTTGTGAAGGCACTGGCAGCTCTGAGTAAACGATGAGGAGATCGGAC 1381
QY 1192 TGGCTGCAAAACAGCCAAACATGACGCCAGTTCACAGGGCCGCAAAAAGCTGATC 1251
|
DB 1382 TGGCTGCAAAACAGCCAAACATGACGCCAGTTCACAGGGCCGCAAAAAGCTGATC 1441
QY 1252 AAGAGCAGGTCAGATGTCAGAGTAAACATGCTGTGTCCACAGACAGCTTGGCCAG 1311
|
DB 1442 AAGAGCAGGTCAGATGTCAGAGTAAACATGCTGTGTGTGTCCACAGACAGCTTGGCCAG 1501
QY 1312 GCTGTGTGA 1320
|
DB 1502 GCTGTGTGA 1510

RESULT 15
US-10-101-510-409

; Sequence 409, Application US/10101510
; Publication No. US20030148295A1
; GENERAL INFORMATION:
; APPLICANT: WAN, JACKSON
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
; FILE REFERENCE: 15117.0012
; CURRENT APPLICATION NUMBER: US/10/101,510
; CURRENT FILING DATE: 2002-03-20
; PRIOR APPLICATION NUMBER: 60/276,947
; PRIOR FILING DATE: 2001-03-20
; NUMBER OF SEQ ID NOS: 805
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 409
; LENGTH: 5651
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-101-510-409

Query Match 95.2%; Score 1256.2; DB 7; Length 5651;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 1261; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 52 ACTGACCTCTCTGGAAGTCCCTTCCAAAGAAAGATGCTGCGGAGACAAACCCCGAGCTA 111
|
DB 260 ACTTCTTTAAGGGAAGTCCCTTCCAAAGAAAGATGCTGCGGAGACAAACCCCGAGCTA 319
QY 112 GTTCCAGCAGACAGGTGAACATTACAGAAATTTTACAAAGATCTCTGTGCTTCAAG 171
|
DB 330 GTTCCAGCAGACAGGTGAACATTACAGAAATTTTACAAAGATCTCTGTGCTTCAAG 379
QY 172 GAGATGAGAGAAATCATCAGTGTGGGAGAACTTATGAGACATGAGATGTTTCAATGTC 231
|
DB 380 GAGATGAGAGAAATCATCAGTGTGGGAGAACTTATGAGACATGAGATGTTTCAATGTC 439
QY 232 CTGAACCCCGCAGCAGAGCTGAGCTGAGTCTGTCTCCCTCAAGCTTGGGACCTTCAAG 291
|
DB 440 CTGAACCCCGCAGCAGAGCTGAGCTGAGTCTGTCTCCCTCAAGCTTGGGACCTTCAAG 499
QY 292 GTTCTGAGAACTCTGT 351
|
DB 500 GTTCTGAGAACTCTGT 559
QY 352 CTTTCTTCACTCATTCGAGACCTGAGCGGTGAGACCTCTGAGGAGGTGCTATTTT 411
|

DB 560 CTTTCTTCACTCATTCGAGACCTGAGCGGTGAGACCTCTGAGGAGGTGCTATTTT 619
|
QY 412 GTTCAAGCTTCATTTGATTTTCAAGGTTCACACCGAAAGATAGCGCAAGCTTTCTG 471
|
DB 620 GTTCAAGCTTCATTTGATTTTCAAGGTTCACACCGAAAGATAGCGCAAGCTTTCTG 679
QY 472 TTCAAACTGGGTGGGTGCAAGGCTCTTCACTGCTCCGTGGGAGCCTGTTCTCA 531
|
DB 680 TTCAAACTGGGTGGGTGCAAGGCTCTTCACTGCTCCGTGGGAGCCTGTTCTCA 739
QY 532 GCCATGACAGGTATCATATTCATTCACAGGCCCTGAGCTTATTAAGATGTCACAG 591
|
DB 740 GCCATGACAGGTATCATATTCATTCACAGGCCCTGAGCTTATTAAGATGTCACAG 799
QY 592 CCCAAGCCGTGGTGAAGCTTTTGCCTGATGTGAACATAGCAATGTGATGCGCGTCTG 651
|
DB 800 CCCAAGCCGTGGTGAAGCTTTTGCCTGATGTGAACATAGCAATGTGATGCGCGTCTG 859
QY 652 CTTCTCTGGGTGGAATCTGCGAAGAACTGCAATCTGTTTGTCTGACATTTTCCACAC 711
|
DB 860 CTTCTCTGGGTGGAATCTGCGAAGAACTGCAATCTGTTTGTCTGACATTTTCCACAC 919
QY 712 ATTGATGAACCTTACCTGATGTTTCTGATCGAGGTCAACAGGCTACTGCTTCTGATC 771
|
DB 920 ATTGATGAACCTTACCTGATGTTTCTGATCGAGGTCAACAGGCTACTGCTTCTGATC 979
QY 772 GTGTATGCTATCATATTAATTTCTGAAAGGCTCAAGCCAGCCGTCGATGATTCAG 831
|
DB 980 GTGTATGCTATCATATTAATTTCTGAAAGGCTCAAGCCAGCCGTCGATGATTCAG 1039
QY 832 CGTGGCAGCCAGAAAGCATCATTCACACAGCTCTGAGATGAGGAAGTAAAGGTGAC 891
|
DB 1040 CGTGGCAGCCAGAAAGCATCATTCACACAGCTCTGAGATGAGGAAGTAAAGGTGAC 1099
QY 892 CGAGCAGACCAAGCCGATGAGCAATTAAGTAAAGCAAGACCTGAGTCTGATCCGAG 951
|
DB 1100 CGAGCAGACCAAGCCGATGAGCAATTAAGTAAAGCAAGACCTGAGTCTGATCCGAG 1159
QY 952 GTTGTATCATTCGTTGGGCTCTGCTTGCATCATGTTGATGATGTTTGGGAAG 1011
|
DB 1160 GTTGTATCATTCGTTGGGCTCTGCTTGCATCATGTTGATGATGTTTGGGAAG 1219
QY 1012 ATGAACAAGCTCATTAAGACGGTGTGCAATTCGAGATATGCTTGCCTGCTGAATCC 1071
|
DB 1220 ATGAACAAGCTCATTAAGACGGTGTGCAATTCGAGATATGCTTGCCTGCTGAATCC 1279
QY 1072 ACCGTAAACCCATCATATGCTCTGAGAGTAAGAACTTGGAGACGCTTCCGAGC 1131
|
DB 1280 ACCGTAAACCCATCATATGCTCTGAGAGTAAGAACTTGGAGACGCTTCCGAGC 1339
QY 1132 ATGTTTCCCTCTTGAAGGCACTGCGAGCTCTGGAATAACAGATGAGGAGATCGGAC 1191
|
DB 1340 ATGTTTCCCTCTTGAAGGCACTGCGAGCTCTGGAATAACAGATGAGGAGATCGGAC 1399
QY 1192 TGGCTGCAAAACAGCCAAACATGACGCCAGTTCACAGGGCCGCAAAAAGCTGATC 1251
|
DB 1400 TGGCTGCAAAACAGCCAAACATGACGCCAGTTCACAGGGCCGCAAAAAGCTGATC 1459
QY 1252 AAGAGCAGGTCAGATGTCAGAGTAAACATGCTGTGTCCACAGACAGCTTGGCCAG 1311
|
DB 1460 AAGAGCAGGTCAGATGTCAGAGTAAACATGCTGTGTGTCCACAGACAGCTTGGCCAG 1519
QY 1312 GCTGTGTGA 1320
|
DB 1520 GCTGTGTGA 1528

Search completed: June 17, 2006, 00:20:06
Job time : 1647 secs

THIS PAGE BLANK (USPTO)